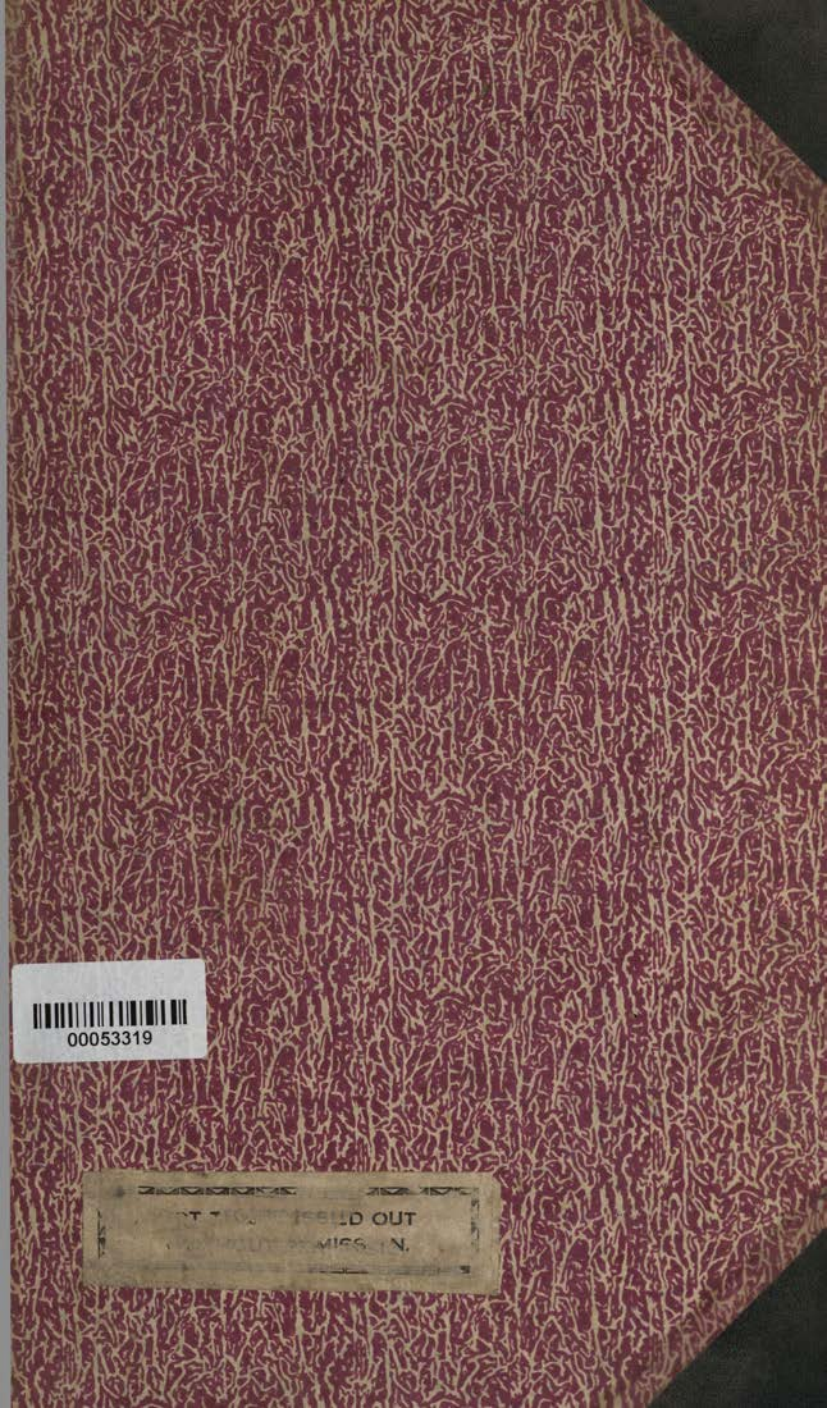
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ASTRONOMICAL OBSERVATIONS

MADE AT

THE HONORABLE

THE EAST INDIA COMPANY'S

OBSERVATORY AT MADRAS,

BY AND UNDER THE SUPERINTENDENCE

OF

JOHN GOLDINGHAM, Esq.

ASTRONOMER,

AND FELLOW OF THE ROYAL SOCIETY.

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PRINTED

BY ORDER OF THE

GOVERNMENT OF MADRAS.

VOL. III.

MADRAS:

PRINTED AT THE COLLEGE PRESS OF FORT ST. GEORGE.

M. DCCC. XXIV.

INTRODUCTION.

THE ASTRONOMICAL OBSERVATIONS taken at the Madras Observatory, having become very voluminous, and the Manuscripts being also injured by the Rain and Wind, which had penetrated into the building, during the violent Storms that have occurred here of late years; it was deemed expedient on these, as well as on other accounts, that the Observations should be printed: A suggestion from the Astronomer that this measure might be carried into effect, and the Observations printed at the *College Press*, was immediately adopted, and ordered by the Government,*---whose desire to have every thing done for the benefit of Science, has been eminently conspicuous—truly deserving the Thanks of the Scientific World in Europe—and as regards myself will always be remembered with the most grateful feelings—in Europe from different causes and motives, obstacles not easily overcome, have sometimes been found in the way of scientific pursuits; here, under the present Government, so far from obstacles having been found, it was merely necessary to state that any Instruments or other articles were required, when the requisite steps were instantly ordered to be taken to procure the same; and I trust the Observatory will, ere long, be furnished with the large Instruments so much wanted, and similar to those now used I believe, in all the Public Observatories in Europe; the Construction of such Instruments by the best Makers, having been strongly recommended by this Government, to the Honorable the Court of Directors of the East India Company.

The means at the College Press for printing Tables of Astronomical Observations were very limited; sufficient only for one Sheet—and even to prepare that, it was found necessary to cast figures and other descriptions of Types, from time to time: this will account for the slow progress of the work, although every diligence was used at the Press.† As the Transits and Eclipses from the 18th of February 18.., when I last returned from England, required very little to prepare them for the Press; and as the Manuscripts had not been materially injured by the Storms, I commenced from that date, leaving the prior Observations of a similar description, which will probably occupy *two* Volumes,‡ to be printed afterwards.

The Observations consist of Transits and Zenith Distances of the Heavenly bodies; Eclipses of the Sun and Moon; and of the Satellites of Jupiter; and Occultations of the fixed Stars by the Moon.

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* *MEMBERS of the GOVERNMENT at the time.*

The Honorable Major General Sir THOMAS MUNRO, *K. C. B. Governor.*
His Excellency General Sir ALEXANDER CAMPBELL, *Bart. K. C. B. Commander in Chief,* } *Members of the Council.*
The Honorable GEORGE STRATTON, *Esq.* }
The Honorable WILLIAM THACKERAY, *Esq.* }
EDWARD WOOD, *Esq. being Chief Secretary.*

During the time this Volume was printing Mr. THACKERAY *and Sir* ALEXANDER CAMPBELL *died; and Mr.* STRATTON *returned to England, and were succeeded by The Honorable* H. S. GRÆME, *Esq. The Honorable* J. H. D. OGILVIE, *Esq. and The Honorable* JAMES COCHRANE, *Esq.*

Mr. WOOD *had also died, and was succeeded in the office of Chief Secretary by* D. HILL, *Esq.*

† Another Volume is in a state of forwardness.

‡ I have therefore made this, *Volume the Third.*

The Transit Telescope is a small but valuable Instrument by *Stancliffe*—the Ys in which the ends of the Axis of the Telescope rest, being supported in a very firm manner; and the supports fixed in a brass Plate extending considerably beyond the extremities of the Axis; this plate is again firmly secured upon a block of Granite, placed upon a solid foundation. In consequence of the Instrument having been thus secured, and well constructed, it has required but a trifling adjustment, from time to time: The Axis of the Instrument was levelled in the first instance—as it has always been since—by the method of Reflection from Quicksilver; and after the middle Wire was accurately placed in the Meridian by equal Altitudes; Pillars of Masonry were set up at a considerable distance, North and South, upon which Meridian marks were made; so that this adjustment of the Instrument might always be examined with the greatest facility. It is difficult to find even the brightest Stars in the day with the Transit Telescope, the Power being so small; there are also only five Wires in the focus—three vertical and two horizontal.

The Telescopes with which the Eclipses were observed, are $3\frac{1}{2}$ feet Achromatic; having Brass Tubes, and firm Stands, with Polar Axes, Rack-work, and Hook's joints; and were made by *Dollond* expressly for the Observatory: the magnifying Power used for the Eclipses of the Satellites, was about 75; but different Powers have at times been applied for the Eclipses of the Sun and Moon.

A small Circular Instrument of 15 inches diameter by *Troughton*, with vertical and horizontal Circles, and of the best construction, was purchased at Madras, and placed in the Observatory; it was, however, not of sufficient diameter for a standard Observatory Instrument; and more calculated for horizontal than vertical angles; expecting at this period, that an Instrument suited to the very accurate purposes required in modern times, would be received from England, the Government at my suggestion permitted this to be sent to the Superintendent of the Trigonometrical Survey, who had no Instrument at the time, wherewith to commence his important Operations, and who, I have reason to think, found it of great use, having retained it until last year, when it was returned to the Observatory; but from being used in an exposed service during so long an interval, it required considerable repairs before there was a probability of its becoming serviceable again; these repairs I was fortunately able to have done here; and although the Instrument is by no means in so perfect a state as it was originally, it is still capable of performing with great correctness, so far as its Power goes, which from its size must necessarily be limited: The mean, however, of several Observations by this Instrument, I consider of value; and numerous Zenith Distances have been taken with it during the last Twelvemonth, some of which are inserted in this Volume, together with many of the Meridian Altitudes and Zenith Distances previously observed.

The Zenith Sector belonging to the Trigonometrical Survey, and brought to the Observatory, was of great Power, and appears to be an accurate Instrument.

A Selection of Zenith Distances has been made, and the Latitude of the Observatory deduced, as will be found in this Volume. A deduction of the Longitude from the Eclipses of the Satellites of Jupiter, is also given in this Volume.

From which it appears that the LATITUDE is 13° 4′ 9″ N. and the LONGITUDE 5h 21′ 9″,4 or 80° 19′ 42″ *East of Greenwich.*

J. GOLDINGHAM,
ASTRONOMER.

MADRAS OBSERVATORY,
1st *January* 1825.

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*Those Observations of the Transits of the Sun and Stars which are marked with an * were taken by Reflection from Quicksilver, for the purpose of levelling the Axis of the Transit Instrument.*

Observations marked ; *were not satisfactory.*

„ *marked* :: *are bad Observations.*

Observed TRANSITS

OF THE

FIXED STARS AND PLANETS

OVER THE

MERIDIAN.

In the YEAR M.DCCCXII.

DAY OF THE MONTH.	I. Wire. M	S	Meridian. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	Names or Characters of the STARS and PLANETS.
Feb. [a] 18	23	11,8	0	24	24,0	-	-			+		
	-	-	0	26	38,6	27	49,7	31,11	1	7,66	- - -	☉ ☿ ♀.
	20	14,4	2	21	25,5	22	36,5	25.55	..	...	14½ S	☉ ☿ ♀.
	23	56,3	*7	25	38,0	27	20,7	38.41	..	...	32½ N	♀ Conjunct. [illegible] Mean Time.
	4	59,0	8	16	17,6	7	34,5	17.27	..	...	10½ N	Capella
	58	26,0	8	59	40,5	0	51,6	40,24	1	0,78	29½ S	♀ Conjunct. [illegible] 30 03 Mean Time.
												Sirius.

The Observations with an Asterisk, were observed by Reflection, for the purpose of ascertaining the Error of the Transit Instrument.

19	27	11,4	0	28	23,7	29	37,9	30,85	..	...	- - -	☉ ☿ ♀.
	29	24,7	*0	30	35,4	*31	47,5					☉ ☿ ♀.
	24	47,5	2	25	59,6	27	11,8	59.70	..	...	13½ S	♀ Conjunct. [illegible] Mean Time.
	17	42,0	6	18	57,5	20	12,5	57,27	..	...	- - -	☉ ☿ ♀. [illegible] Mean Time.

Emersion of Jupiter's second Satellite

Time by Clock (*Shelton*) 6h 45' 51". Mean Time 6h [illegible]

Planet near the Zenith: Twilight: the position awkward: Observation [illegible]

24	4,5	*7	25	45,0	27	27,0	- -	..	...	32½ N	Capella
36	1,5	7	37	21,4	38	42,0	21.68	..	...	15½ N	☉ ☿ ♀.
5	6,0	8	6	23,5	7	41,0	25.40	..	...	10½ N	♀ Conjunct. [illegible] Mean Time
8	22,0	8	9	51,0	11	20,5	51.85	..	7,57	24 N	[illegible]
33	16,4	8	34	32,9	35	48,8	52.51	..	...	[illegible] N	[illegible]
40	47,0	8	42	43,8	44	40,0	43.85	..	7,75	6½ S	Capella
58	33,7	*8	59	46,0	1	1,8	46.96	..	...	29½ S	[illegible]
44	9,0	*9	45	30,5	46	56,4	31.71	..	...	19 N	[illegible]
51	12,7	9	52	24,8	53	35,5	24,53	..	...	7½ N	[illegible]
55	24,7	*9	55	42,0	58	5,7	- -	..	...	15½ N	[illegible]
20	31	10,0	0	32	23.0	33	55,					☉
	33	23,5	*0	34	33,5	*35	45,7	- - -	..	...	- - -	☉ ☿.

[a] February 17. J. Goldingham, F. R. S. having returned from [illegible]

In the YEAR M.DCCCXII.

DAY OF THE MONTH.	I. Wire.	MERIDIAN.	III. Wire.	Reduction of Wires.	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
	M S	H M S	M S	S				
FEB. 23	The Eastern end of the Axis appearing 1″,6 too high, lowered it after the Transit of this day: Examined the line of Collimation and Meridian adjustment—found the Instrument a little out of adjustment both ways—adjusted it.							
						+		
	9 53,6	7 11 33,0	13 10,5	33,27	..	...	30 N	*ε Aurigæ.*
	14 51,6	7 16 7,4	17 23,5	7,41	..	...	4½ N	☽ 1 L. 6h 55′ 43″,17 mean Time.
	24 9,0	7 - - -	27 32,5	50,95	..	...	32½ N	*Capella.*
	36 7,0	7 37 27,0	38 47,5	27,23	..	...	15½ N	*β Tauri.*
	46 13,7	*7 47 28,5	48 42,7	- - -	..	...	31 S	*α Leporis.*
	58 22,8	7 59 40,0	8 0 57,0	40,19	..	...	55½ S	*γ Leporis.*
	5 12,6	S 6 28,5	7 44,5	28,72	..	...	10½ N	*ϒ Centrum.* 7h 45′ 56″,02 mean Time.
	10 53,4	8 42 50,4	14 47,5	50,62	..	...	65½ S	*Canopus.*
	12 54,0	9 14 16,5	15 38,8	16,57	..	...	42½ S	*ε Canis Maj.*
	16 56,0	9 18 13,5	19 30,5	13,47	..	...	50½ S	*o Canis Maj.*
	22 28,5	9 23 47,5	25 6,0	47,17	..	...	59½ S	*δ Canis Maj.*
	- - -	9 34 41,5	36 9,0	- - -	..	...	49½ S	*π Navis.*
	38 21,5	9 39 49,0	41 4,0	42,98	..	...	41½ S	*ϰ Navis.*
	44 13,5	*9 45 38,5	47 2,4	38,24	..	...	19½ N	*Castor.*
	55 50,5	*9 56 51,0	58 11,5	51,05	..	...	15 N	*Pollux.*
21	35 6,5	0 36 19,0	37 31,7	- - -	..	...	- - -	⊙ 1 L.
	57 19,7	*0 38 31,7	*39 44,0	4,08	..	...	12½ S	⊙ 2 L.
	33 52,5	2 35 4,0	36 16,0	40,82	..	...	36½ N	♀ 2h 11′ 23″,10 mean Time.
	10 3,5	7 11 40,6	13 18,0	31,69	..	...	28 N	*ε Aurigæ.*
	14 57,4	7 16 31,4	18 6,0	57,00	..	...	35½ S	*ϰ Aurigæ.*
	19 23,6	7 20 40,0	21 57,0	40,24	..	...	32½ N	*ε Leporis.*
	24 17,5	7 25 59,5	27 41,5	59,73	..	...	*Capella.*	
	- - -	7 28 40,0	29 52,0	- - -	..	...	21½ S	*Rigel.*
	30 28,5	7 31 39,0	32 50,5	39,33	..	...	20½ S	*τ Orionis.*
	36 14,6	7 37 35,5	38 55,8	55,55	1	6,91	15½ N	*β Tauri.*
	42 5,5	7 43 21,4	44 37,5	21,54	..	...	34½ S	*β Leporis.*
	16 22,5	7 47 36,0	48 50,0	36,16	1	7,72	31½ S	*α Leporis.*
	- - -	7 49 50,0	51 3,0	- - -	..	...	14½ S	*ε Orionis.*
	53 15,5	7 54 25,5	55 37,0	25,45	..	...	15½ S	*ζ Orionis.*
	58 30,7	7 59 48,0	1 5,4	48,12	1	7,93	55½ S	*γ Leporis.*
	5 20,0	8 6 32,0	7 54,0	36,25	..	...	10½ N	*ϒ Centrum.* 7h 42′ 0″,41 mean Time.
	11 39,3	8 12 56,1	14 12,8	56,25	..	...	5½ N	☽ 1 L. 7h 45′ 18″,14 mean Time.
	36 20,6	*8 37 36,0	38 49,7	- - -	..	...	31 S	*β Canis Maj.*
	58 47,7	*9 0 2,5	1 15,7	- - -	..	...	25½ S	*Sirius.*
	17 4,0	9 18 21,0	19 39,6	21,34	1	7,47	50½ S	*o Canis Maj.*
	22 57,0	9 23 56,0	25 15,0	56,10	..	...	59½ S	*δ Canis Maj.*
22	39 3,8	0 40 16,8	41 29,0	22,85	1	7,65	- - -	⊙ 1 L.
	41 16,0	0 42 29,5	43 41,7					⊙ 2 L.
	38 25,5	2 39 37,0	40 49,0	37,20	..	...	12½ S	♀ *Centrum.* 2h 11′ 52″,35 mean Time.
	10 10,0	7 11 48,0	13 26,0	48,45	1	7,53	30½ N	*ε Aurigæ.*
	24 25,0	*7 26 8,0	27 48,5	- - -	..	...	32½ N	*Capella.*
	36 21,6	7 37 42,8	39 4,0	42,90	1	7,55	15½ N	*β Tauri.*
	42 14,0	7 43 29,0	44 45,0	29,34	1	7,80	34½ S	*β Leporis.*
	16 30,2	7 47 44,4	48 58,4	44,29	1	8,13	31½ S	*α Leporis.*
	- - -	7 49 58,4	51 9,6	58,04	..	...	14½ S	*ε Orionis.*
	53 22,5	7 54 34,0	55 45,4	34,05	..	...	15½ S	*ζ Orionis.*
	58 39,5	7 59 55,8	1 12,3	55,94	1	7,82	55½ S	*γ Leporis.*
	5 28,4	8 6 45,0	8 3,0	45,45	..	...	10½ N	*ϒ Centrum.* 7h 38′ 5″,22 mean Time.
	8 40,0	8 10 11,7	11 42,4	11,58	..	...	24½ N	*θ Aurigæ.*
	36 30,0	8 57 44,5	58,4	44,69	..	...	31½ S	*β Canis Maj.*
	41 7,0	8 43 5,0	45 3,0	5,19	..	...	65½ S	*Canopus.*
	18 57,0	8 50 9,5	51 23,0	9,84	..	...	3½ N	*γ Geminorum.*
	7 38,4	9 8 55,0	10 11,8	55,29	..	...	5½ N	☽ 1 L. 8h 4′ 46″,2 mean Time.
	13 12,5	9 14 33,0	15 54,4	33,32	..	...	41½ S	*ε Canis Maj.*
	17 12,3	9 18 29,4	19 46,4	29,47	1	8,43	50½ S	*o Canis Maj.*
	22 44,8	9 24 2,5	25 22,5	3,56	1	7,46	59½ S	*δ Canis Maj.*

EMERSION of JUPITER's *first* Satellite.
Time by Clock (S.) 11h 18′ 57″ Mean Time 10h 49′ 41″,04.
Planet high: Clear: ☽ up and near Jupiter. Observation good.

In the YEAR M.DCCCXII.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock. +	Zenith Distance.	Names or Characters of the STARS AND PLANETS.
FEB. 25	43	0,5	0	44	13,5	45	24,6	18,92	1	7,38	- - -	☉ 1 L.
	45	12,5	0	46	25,0	47	37,0					☉ 2 L.
	10	19,0	7	11	56,4	13	33,4	56,45	1	8,00	30½ N	ε *Aurigæ.*
	15	13,0	7	16	46,6	18	2,0	46,59	..	. . .	28 N	ϑ *Aurigæ.*
	19	38,0	7	20	55,5	22	12,0	55,34	2	7,56	35½ S	ε *Leporis.*
	24	33,8	7	26	15,0	27	57,0	15,36	1	7,83	32½ N	*Capella.*
	-	-	7	28	55,5	30	7,0	- - -	..	. . .	21½ S	*Rigel.*
	30	42,8	7	31	54,5	33	6,0	54,53	1	7,60	20½ S	τ *Orionis.*
	36	29,8	7	37	50,0	39	11,0	50,30	1	7,40	15½ N	β *Tauri.*
	42	21,6	7	43	37,4	44	52,8	37,39	1	8,05	34½ S	β *Leporis.*
	46	37,6	7	47	52,4	49	6,0	52,04	1	7,75	31½ S	α *Leporis.*
	-	-	7	50	6,5	51	16,4	- - -	..	. . .	14½ S	ε *Orionis.*
	53	31,6	7	54	42,0	55	52,5	42,10	1	8,05	15½ S	ζ *Orionis.*
	7	50,4	*8	9	11,6	10	50,4	- - -	..	. . .	32 N	β *Aurigæ.*
	-	-	9	0	17,8	1	30,5	- - -	..	. . .	29½ S	*Sirius.*
	7	14,0	9	9	13,5	11	12,0	13,45	..	. . .	66½ S	B *Navis.*
	13	20,1	9	14	40,5	16	0,5	40,58	1	7,26	41½ S	ε *Canis Maj.*
	17	20,0	9	18	37,4	19	54,1	37,40	1	7,93	36½ S	o *Canis Maj.*
	22	52,4	9	24	11,0	25	30,0	11,20	1	7,64	30½ S	δ *Canis Maj.*
	44	38,4	*9	46	1,8	47	25,0	- - -	..	. . .	19½ N	*Castor.*
	55	50,4	*9	57	13,6	58	35,0	- - -	..	. . .	15½ N	*Pollux.*
24	46	57,0	0	48	9,2	49	21,7	15,75	..	. . .	- - -	☉ 1 L.
	49	9,4	*0	50	23,0	*51	33,8					☉ 2 L.
	47	30,8	2	48	42,0	49	55,5	42,15	..	. . .	11½ S	♀ *Centrum.* 2h 12′ 48″,03 mean Time.
	19	46,0	7	21	3,1	22	20,0	3,29	1	7,95	35½ S	ε *Leporis.*
	24	40,6	7	26	22,8	28	4,6	22,86	1	7,50	32½ N	*Capella.*
	-	-	7	29	3,0	30	15,0	- - -	..	. . .	21½ S	*Rigel.*
	30	49,0	7	32	1,7	33	13,4	1,57	1	7,04	20½ S	τ *Orionis.*
	36	38,8	7	37	58,4	39	19,0	58,75	..	. . .	15½ N	β *Tauri.*
	42	29,6	7	43	44,0	45	0,5	- - -	1	7,23	34½ S	β *Leporis.*
	46	44,3	7	47	59,4	49	14,3	59,44	1	7,40	31½ S	α *Leporis.*
	-	-	7	50	10,4	51	23,0	- - -	..	. . .	14½ S	ε *Orionis.*
	53	40,8	7	54	51,3	56	3,0	51,68	..	. . .	15½ S	ζ *Orionis.*
	58	54,8	8	0	11,3	1	28,7	11,62	1	7,84	35½ S	γ *Leporis.*
	5	48,6	8	7	5,1	8	23,0	5,70	..	. . .	10½ N	ϒ *Centrum.* 7h 50′ 17″,64 mean Time.
	8	56,5	8	10	27,8	11	57,7	27,58	..	. . .	24½ N	θ *Aurigæ.*
	59	11,5	9	0	25,6	1	39,0	25,51	..	. . .	29½ S	*Sirius.*
	13	26,4	9	14	48,0	16	9,5	48,08	1	7,50	41½ S	ε *Canis Maj.*
	17	26,5	9	18	44,4	20	2,5	44,55	1	7,15	36½ S	o *Canis Maj.*
	22	0,5	9	24	19,4	25	37,6	19,32	..	. . .	30½ S	δ *Canis Maj.*
	44	45,5	*9	46	9,8	47	33,0	- - -	..	. . .	19½ N	*Castor.*
	56	1,5	*9	57	23,5	58	42,7	- - -	..	. . .	15½ N	*Pollux.*
25	50	54,5	0	52	5,0	53	16,8	10,97	1	7,82	- - -	☉ 1 L.
	53	4,7	0	54	17,5	55	29,8					☉ 2 L.
	52	2,8	2	53	14,0	54	26,0	14,28	..	. . .	10½ S	♀ *Centrum.* 2h 15′ 15″,88 mean Time.
	19	53,4	7	21	10,4	22	27,4	10,49	1	7,90	35½ S	ε *Leporis.*
	24	50,0	7	26	30,5	28	11,3	30,78	1	7,92	32½ N	*Capella.*
	30	58,0	7	32	9,4	33	21,0	9,73	..	. . .	20½ S	τ *Orionis.*
	36	45,4	7	38	6,0	39	27,0	6,20	1	7,45	15½ N	β *Tauri.*
	42	36,4	7	43	52,5	45	8,5	52,37	1	7,95	34½ S	β *Leporis.*
	46	53,0	7	48	8,6	49	25,4	8,19	..	. . .	31½ S	α *Leporis.*
	53	46,8	7	54	57,0	56	7,5	57,15	..	. . .	15½ S	ζ *Orionis.*
	59	2,5	8	0	19,0	1	35,4	19,07	1	7,45	35½ S	γ *Leporis.*
	6	0,6	8	7	16,4	8	32,0	16,45	..	. . .	10½ N	ϒ *Centrum.* 7h 20′ 24″,87 mean Time.
	-	-	8	10	56,0	12	5,9	- - -	..	. . .	24½ N	θ *Aurigæ.*
	The Instrument may be considered level.											
	36	52,5	8	38	6,5	39	20,5	6.66	..	. . .	31½ S	β *Canis Maj.*
	41	31,6	8	43	28,5	45	24,0	28,50	..	. . .	66½ S	*Canopus.*
	59	18,4	9	0	32,0	1	46,0	33.04	1	7,13	29½ S	*Sirius.*
	17	34,4	9	18	52,5	20	9,0	52,20	1	7.15	36½ S	o *Canis Maj.*
	23	7,5	9	24	26,1	25	45,1	26,22	1	6,90	30½ S	δ *Canis Maj.*

In the YEAR M.DCCCXII.

DAY OF THE MONTH.	I. Wire. M	I. Wire. S	MERIDIAN. H	M	S	III. Wire. M	III. Wire. S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
										+		
FEB. 26	54	47,7	0	55	59,0	57	11,7	5,58	1	7,88	- - -	⊙ 1 L.
	56	59,0	0	58	12,0	59	23,7					⊙ 2 L.
	56	35,5	2	57	47,0	58	58,0	46,95	..	...	10½ S	♀ *Centrum.* 2ʰ 13′ 44″,24 mean Time.
	1	26,8	8	2	59,0	3	50,0	58,78	..	...	23½ S	*χ Orionis.*
	36	59,4	8	38	14,0	39	28,7	14,11	1	7,45	31½ S	*β Canis Maj.*
	41	37,7	8	43	35,0	45	32,8	35,33	..	...	66 S	*Canopus.*
	59	28,5	9	0	42,5	1	56,0	42,46	1	7,80	29½ S	*Sirius.*
	17	41,0	9	19	0,0	20	19,5	0,22	1	8,02	36½ S	*ο Canis Maj.*
	23	15,0	9	24	34,0	25	53,0	34,10	1	7,88	39½ S	*δ Canis Maj.*

EMERSION of JUPITER's *second* Satellite.
Time by Clock (S.) 9ʰ 52′ 22″ Mean Time 9ʰ 7′ 9″,23.
Planet high : Clear : ☽ up and full, but far from Jupiter : Observation satisfactory.

27	58	41,0	0	59	52,8	1	5,4	58,86	1	7,89	- - -	⊙ 1 L.
	0	53,0	1	2	4,8	3	16,0					⊙ 2 L.
	1	8,0	2	2	20,0	3	32,4	20,13	..	...	9½ S	♀ *Centrum.* 2ʰ 14′ 13″,92 mean Time.
	45	8,0	7	46	20,0	47	31,5	19,95	..	...	14½ S	*δ Orionis.*
	54	1,8	7	55	12,8	56	23,0	12,48	2	7,66	15½ S	*ζ Orionis.*
	6	22,7	8	7	41,5	8	56,8	- -	..	...	10½ N	♃ *Centrum.* 7ʰ 18′ 42″,73 mean Time.
	37	6,0	8	38	22,0	39	37,5	22,11	1	8,0	31½ S	*β Canis Maj.*
	41	47,5	8	43	41,0	45	40,8	41,23	..	...	66 S	*Canopus.*
	13	52,5	9	15	11,4	16	30,6	11,58	..	...	41½ S	*ε Canis Maj.*
	17	51,0	9	19	8,5	20	25,0	8,25	1	8,13	36½ S	*ο Canis Maj.*
	23	22,5	9	24	42,5	26	0,8	42,17	1	8,07	39½ S	*δ Canis Maj.*
28	2	36,5	1	3	48,5	4	59,0	53,66	..	...	- - -	⊙ 1 L.
	4	47,5	1	5	59,5	7	11,0					⊙ 2 L.
	5	41,5	3	6	53,0	8	3,5	52,83	..	...	9 S	♀ *Centrum.* 2ʰ 14′ 40″,90 mean Time.
	45	16,8	7	46	28,5	47	39,0	28,28	1	8,33	13½ S	*δ Orionis.*
	19	32,8	7	50	44,8	51	55,5	44,55	..	...	14½ S	*ε Orionis.*
	54	8,0	7	55	20,0	56	31,0	99,98	1	7,50	15½ S	*ζ Orionis.*
	11	54,0	8	43	52,8	45	49,4	52,60	1	8,37	66 S	*Canopus.*
	19	43,5	8	50	56,8	52	10,0	56,80	2	8,18	3½ N	*γ Geminorum.*
	59	43,0	9	0	57,0	2	11,0	57,09	2	7,31	29½ S	*Sirius.*
	13	59,0	9	15	20,0	16	41,0	20,10	1	8,52	41½ S	*ε Canis Maj.*
29	6	29,7	1	7	41,0	8	53,5	47,45	1	8,33	- - -	⊙ 1 L.
	8	41,7	1	9	53,7	11	4,8					⊙ 2 L.
	10	15,7	3	11	25,0	12	36,4	25,10	..	...	- - -	♀ *Centrum.* 2ʰ 15′ 8″,08 mean Time.
	19	40,0	7	50	52,0	52	4,5	52,20	1	7,55	14½ S	*ε Orionis.*
	54	17,8	7	55	28,8	56	40,0	28,93	2	8,22	15½ S	*ζ Orionis.*
	50	32,0	8	0	50,0	2	7,5	49,97	..	...	35½ S	*ϑ Leporis.*
	6	53,0	8	8	10,5	9	28,4	10,70	..	...	10½ N	♃ *Centrum.* 7ʰ 11′ 3″,33 mean Time.
	37	23,5	8	38	38,0	39	53,6	38,21	2	8,05	31½ S	*β Canis Maj.*
	42	3,7	8	44	0,6	45	57,6	0,38	1	7,78	66½ S	*Canopus.*
	49	50,0	8	51	4,5	52	18,6	4,49	1	7,69	3½ N	*γ Geminorum.*
	59	50,5	9	1	5,5	2	20,0	5,21	1	8,12	29½ S	*Sirius.*
	14	7,5	9	15	28,0	- -	- -	- -	..	...	41½ S	*ε Canis Maj.*
MARCH 1	40	21,5	1	11	34,5	12	45,6	39,32	1	7,27	- - -	⊙ 1 L.
	12	33,0	1	13	45,0	14	56,4					⊙ 2 L.
	59	40,0	8	0	58,0	2	15,5	57,92	1	7,95	35½ S	*γ Leporis.*
	7	10,0	8	8	26,4	9	42,5	26,39	..	...	10½ S	♃ *Centrum.* 7ʰ 7′ 16″,05 mean Time.
	37	32,5	8	38	46,0	40	0,0	46,23	1	8,12	31½ S	*β Canis Maj.*
	42	12,0	8	44	8,0	46	4,5	8,19	1	7,81	66 S	*Canopus.*
	49	59,0	8	51	12,4	52	25,0	12,24	1	7,75	3½ N	*γ Geminorum.*
	59	59,0	9	1	13,0	2	27,8	13,39	1	8,18	29½ S	*Sirius.*
	14	14,8	9	15	36,0	16	57,0	36,00	2	7,95	41½ S	*ε Canis Maj.*
	18	15,0	9	19	32,5	20	49,5	32,42	4	8,05	55½ S	*ο Canis Maj.*
	23	47,4	9	25	6,0	26	25,0	6,14	..	...	39½ S	*δ Canis Maj.*
	29	38,0	9	30	58,5	32	18,6	58,44	..	...	39½ S	✻ *Seq. δ Can. Maj.*
	30	14,0	9	31	34,5	32	54,0	34,29	..	...	59½ S	✻ *Canis Maj.*
	45	33,5	9	46	57,4	48	20,6	57,27	..	...	19½ N	*Castor.*

In the YEAR M.DCCCXII.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
MARCH 1	Wound up the Clock: Arc of Vibration 1° 32'.											
2	14	14,8	1	15	27,5	16	38,5	32,43	..	+ ...	- - -	☉ 1 L.
	16	25,5	1	17	37,8	18	49,7					☉ 2 L.
	19	19,4	3	20	30,0	21	41,0	30,33	..	...	7¼ S	♀ *Centrum.* 2h 16' 3",75 mean Time.
	Emersion of Jupiter's *first* Satellite. Time by Clock (S.) 8h 19' 4",5. Mean Time 7h 13' 47",50. Planet high and clear: Observation good.											
	37	39,0	8	38	54,0	40	8,0	53,81	1	7,48	31½ S	*β Canis Maj.*
	42	19,5	8	-	-	46	12,5	16,25	..	...	66 S	*Canopus.*
	50	6,5	8	51	20,0	52	34,5	20,16	1	7,92	3½ N	*γ Geminorum.*
	0	7,0	9	1	20,5	2	34,5	20,66	1	7,27	29½ S	*Sirius.*
	14	22,6	9	15	44,0	17	5,5	44,07	1	8,07	41½ S	*ε Canis Maj.*
	18	21,8	9	19	40,0	20	58,2	40,40	1	7,96	35½ S	*o Canis Maj.*
	23	55,6	9	25	15,0	26	34,2	14,99	..	...	30½ S	*δ Canis Maj.*
	29	46,0	9	31	6,0	32	26,0	6,09	1	7,65	30½ S	** Seq. δ Can. Maj.*
	30	22,0	9	31	42,0	33	2,0	42,90	1	7,80	39½ S	** Can. Maj.*
	45	40,0	9	47	4,4	48	28,0	4,24	..	...	19½ N	*Castor.*
3	18	5,0	1	19	16,4	20	29,0	22,66	..	...	- - -	☉ 1 L.
	20	16,9	1	21	29,0	22	39,5					☉ 2 L.
	26	54,4	3	25	3,6	26	15,8	3,73	..	...	7 S	♀ *Centrum.* 2h 16' 34",03 mean Time.
	54	42,6	7	55	52,0	57	4,0	53, 0	3	8,02	15½ S	*ζ Orionis.*
	37	48,0	8	39	2,8	40	16,8	2,60	..	...	31½ S	*β Canis Maj.*
	42	27,7	8	44	23,8	46	20,5	24,01	2	7,91	66 S	*Canopus.*
	50	14,8	8	51	28,0	52	42,5	28,19	1	8,08	3½ N	*γ Geminorum.*
	0	15,5	9	1	29,0	2	43,0	29,16	1	8,50	29½ S	*Sirius.*
	14	30,0	9	15	51,0	17	12,0	51,05	1	7,98	41½ S	*ε Canis Maj.*
	18	30,6	9	19	48,6	21	5,5	48,07	1	7,67	35½ S	*o Canis Maj.*
	45	49,0	9	47	12,5	48	36,0	12,53	1	8,29	19½ N	*Castor.*
	57	6,0	9	58	26,8	59	46,0	26,45	..	...	15½ N	*Pollux.*
4	21	57,7	1	23	9,8	24	21,0	15,07	..	...	- - -	☉ 1 L.
	-	-	1	25	21,0	26	31,8					☉ 2 L.
	28	24,8	3	29	37,6	30	48,0	36,76	..	...	6½ S	♀ *Centrum.* 2h 17' 1",39 mean Time.
	42	34,5	8	44	31,0	46	27,6	31,04	1	7,08	66 S	*Canopus.*
5	25	47,5	1	27	0,0	28	11,6	5,32	1	6,92	- - -	☉ 1 L.
	27	59,5	1	29	11,0	30	22,0					☉ 2 L.
	32	57,5	3	34	10,0	-	-	- -	..	...	6 S	♀ *Centrum.* 2h 17' 30",84 mean Time.
6	37	31,0	3	38	43,0	39	55,0	43,13	..	...	5½ S	♀ *Centrum.* 2h 17' 58",28 mean Time.
	8	38,0	8	9	50,0	11	14,5	50,38	..	...	10½ N	♃ *Centrum.* 6h 48' 25",61 mean Time.
	38	11,5	8	39	26,6	40	40,8	26,41	3	7,93	31½ S	*β Canis Maj.*
	42	49,7	8	44	48,6	46	46,4	48,09	..	...	66 S	*Canopus.*
	0	38,0	9	1	52,0	3	6,5	52,16	3	7,66	29½ S	*Sirius.*
	14	54,0	9	16	15,4	17	36,0	15,24	3	8,06	41½ S	*ε Canis Maj.*
	18	54,4	9	20	11,5	21	29,0	11,64	..	...	35½ S	*o Canis Maj.*
	34	2,7	9	35	31,5	36	59,8	- -	..	...	40½ S	*π Navis.*
7	33	27,5	1	34	40,0	35	50,6	45,07	2	7,87	- - -	☉ 1 L.
	35	40,0	1	36	50,0	38	2,0					☉ 2 L.
	42	5,5	3	43	18,8	44	30,6	18,77	..	...	4½ S	♀ *Centrum.* 2h 18' 30",96 mean Time.
8	37	17,4	1	38	29,0	39	40,0	34,64	1	7,76	- - -	☉ 1 L.
	39	28,9	1	40	40,0	41	51,0					☉ 2 L.
	46	39,5	3	47	51,4	49	3,0	51,89	..	...	4½ S	♀ *Centrum.* 2h 18' 57",21 mean Time.
	38	26,0	8	39	40,5	42	55,0	40,64	2	7,96	31½ S	*β Canis Maj.*
	43	47,0	8	44	58,5	46	10,0	58,54	..	...	20 S	** Monocer.*
	50	53,4	8	52	7,5	53	20,8	7,54	5	7,82	5½ N	*γ Geminorum.*
	0	54,0	9	2	8,0	3	22,5	8,16	2	8,00	29½ S	*Sirius.*

In the YEAR M.DCCCXII.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock. +	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
MARCH 8	15	9,6	9	16	30,0	17	51,0	30,19	2	7,47	41½ S	ε *Canis Maj.*
	19	8,5	9	20	27,3	21	45,5	27,19	2	7,77	35½ S	ο *Canis Maj.*
	24	41,5	9	26	1,0	27	21,0	1,17	6	7,80	29½ S	δ *Canis Maj.*
	46	29,0	9	47	52,0	49	15,0	52,04	5	7,89	19½ N	*Castor.*
	57	45,0	9	59	5,0	0	25,7	5,21	5	7,75	15½ N	*Pollux.*
9	41	7,4	1	42	17,0	43	30,5					⊙ 1 L.
	43	16,5	1	44	30,8	45	40,4	23,82	1	8,19	- - -	⊙ 2 L.
	51	14,0	3	52	27,0	53	40,8	27,13	..	...	4 S	♀ *Centrum.* 2ʰ 19′ 30″,24 mean Time.
	27	40,5	8	28	56,1	30	13,0	56,61	1	8,77	9½ N	μ *Geminorum.*
	38	54,6	8	39	49,5	41	3,5	49,31	1	8,77	31½ S	β *Canis Maj.*
	43	13,0	8	45	10,5	47	8,0	10,56	..	...	66 S	*Canopus.*
	51	1,6	8	52	15,0	53	29,0	15,19	1	7,85	3½ N	γ *Geminorum.*
	1	1,8	9	2	16,0	3	30,6	16,14	1	7,98	29½ S	*Sirius.*
	15	19,0	9	16	39,5	17	59,6	39,40	1	9,21	41½ S	ε *Canis Maj.*
	19	18,0	9	20	35,5	21	52,8	35,05	1	8,31	36½ S	ο *Canis Maj.*
	24	50,0	9	26	9,3	27	28,6	9,20	1	8,03	39½ S	δ *Canis Maj.*
	-	- -	9	34	52,0	56	38,5	- -	..	...	61½ S	✳ *Navis.*
	40	43,0	9	42	3,0	43	24,5	3,50	..	...	42½ S	ν *Canis Maj.*
	46	35,0	9	48	0,0	49	24,0	59,82	1	7,78	19½ N	*Castor.*
	57	52,8	9	59	12,5	0	32,5	12,62	1	7,41	15½ N	*Pollux.*
			EMERSION of JUPITER's *first* Satellite. Mean by 3 Observers 10ʰ 42′ 34,″5. Mean Time 9ʰ 8′ 28″,10. Planet high, but hazy: Observation not satisfactory.									
10	44	55,3	1	46	6,0	47	18,5					⊙ 1 L.
	47	6,0	1	48	18,0	49	29,5	12,21	1	7,49	- - -	⊙ 2 L.
	55	49,5	3	57	2,0	58	15,0	2,38	..	...	8½ S	♀ *Centrum.* 2ʰ 20′ 1″,35 mean Time.
	40	51,0	9	42	12,5	43	33,0	12,29	..	...	42 S	ν *Canis Maj.*
	46	44,4	9	48	8,0	49	32,0	8,15	1	8,33	19½ N	*Castor.*
	4	34,0	10	5	51,5	7	8,6	- -	..	...	38½ S	ο *Arg. Nav.*
	-	- -	10	9	4,0	10	45,5	- -	..	...	59½ S	P *Arg. Nav.*
	23	48,6	10	25	5,7	26	22,5	- -	..	...	37½ S	ρ 1 *Arg. Nav.*
	-	- -	18	20	7,6	21	21,0	- -	..	...	32½ S	β *Scorpionis.*
	42	9,7	18	43	30,0	44	48,0	29,55	..	...	39½ S	*Antares.*
11	48	44,4	1	49	56,4	51	7,7	1,85	1	8,82	- - -	⊙ 1 L.
	50	55,9	1	52	7,0	53	17,5					⊙ 2 L.
	38	50,0	8	40	5,5	41	20,9	5,3	2	8,08	31½ S	β *Canis Maj.*
	43	29,5	8	45	26,7	47	24,0	26,54	2	7,99	66 S	*Canopus.*
	51	17,4	8	52	30,6	53	44,0	30,69	2	7,75	3½ N	γ *Geminorum.*
	1	18,5	9	2	32,0	3	46,0	32,16	2	8,01	29½ S	*Sirius.*
	19	33,4	9	20	50,6	22	8,0	50,69	2	7,59	36½ S	ο *Canis Maj.*
12	The Transit Clock taken down and cleaned: Lengthened the Pendulum 7 Divisions of the Nut.											
	24	39,5	6	25	53,0	27	7,0	53,16	..	...	3½ N	γ *Geminorum.*
	29	25,0	6	31	3,0	32	41,5	- -	..	...	56½ S	υ *Navis.*
	34	41,0	6	35	54,5	37	7,0	54,29	..	...	29½ S	*Sirius.*
	40	23,0	6	41	50,5	43	17,6	50,50	..	...	45½ S	κ *Canis Maj.*
	48	54,8	6	50	15,4	51	35,5	15,32	..	...	41½ S	ε *Canis Maj.*
	4	31,5	7	6	14,0	7	56,0	14,00	..	...	61½ S	✳ *Arg. Nav.*
	14	18,6	7	15	40,5	17	1,5	40,31	..	...	42½ S	ν *Canis Maj.*
	20	11,0	7	21	33,0	22	59,0	33,06	..	...	19½ N	*Castor.*
	31	27,0	7	32	48,0	34	8,0	47,79	..	...	15½ N	*Pollux.*
	39	5,5	7	40	23,0	41	41,0	23,22	..	...	37½ S	ξ *Arg. Nav.*
13	28	45,0	11	29	57,0	31	8,0	2,64	..	...	- - -	⊙ 1 L.
	30	56,8	11	32	7,8	33	17,5					⊙ 2 L.
	11	11,4	6	12	25,4	13	39,8	25,54	..	...	31½ S	β *Canis Maj.*
	15	49,6	6	17	47,4	19	44,8	47,36	..	...	66 S	*Canopus.*
	29	37,6	6	21	51,0	35	4,7	51,11	..	...	3½ N	γ *Geminorum.*

In the YEAR M.DCCCXII.

DAY of the MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days.	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
										+		
MARCH 13	28	23,4	6	30	0,0	31	37,0	0,25	..	...	56½ S	*υ Navis.*
	33	31,0	6	34	51,0	36	5,8	50,99	..	...	29½ S	*Sirius.*
	39	24,5	6	40	49,0	42	13,6	49,15	..	...	45½S	*κ Canis Maj.*
	47	51,4	6	49	13,0	50	34,7	13,07	..	...	41½ S	*ε Canis Maj.*
	51	52,0	6	53	9,8	54	26,6	9,59	..	...	56½ S	*o Canis Maj.*
	57	24,8	6	58	43,5	0	2,0	43,49	..	...	59½ S	*δ Canis Maj.*
	5	40,0	7	7	26,0	9	11,8	26,10	..	...	62½ S	** Navis.*
	13	16,4	7	14	37,0	15	58,0	37,14	..	...	42½ S	*μ Canis Maj.*
	19	9,6	7	20	33,0	21	56,5	33,07	..	...	19½ N	*Castor.*
	34	1,4	7	35	15,0	36	28,6	15,10	..	...	27½ S	** Unclassed.*
	38	3,0	7	39	20,4	40	38,0	20,35	..	...	37½ S	*ξ Arg. Nav.*
	42	25,0	7	43	56,5	45	26,5	56,25	..	...	52½ S	** Unclassed.*
14	31	23,4	23	32	33,0	33	44,8	38,80	..	...	- - -	☉ 1 L.
	33	32,8	23	34	44,5	35	54,0					☉ 2 L.
	45	20,0	1	46	32,5	47	45,5	34,07	..	...	1½ S	♀ *Centrum.* 2ʰ 21′ 57″,03 mean Time.

P. M. The Rate of the Clock being 1′: 3″ Loss per day, shortened the Pendulum 2 Turns, 12 Divisions of the Nut—Index at 20. Set the Clock going—and 25ʰ faster than before.

	15	12,6	6	17	10,0	19	7,8	10,16	..	...	66 S	*Canopus.*
	23	0,5	6	24	14,6	25	28,0	14,46	..	...	3½ N	*γ Geminorum.*
	27	46,0	6	29	24,0	21	2,5	21,27	..	...	56½ S	*ν Navis.*
	33	0,5	6	34	15,0	35	29,6	15,14	..	...	29½ S	*Sirius.*
	38	48,0	6	40	12,0	41	36,0	12,15	..	...	45½ S	*κ Canis Maj.*
	47	16,0	6	48	37,0	49	58,0	37,00	..	...	41½ S	*ε Canis Maj.*
	51	17,0	6	52	34,5	53	51,0	34,29	..	...	36½ S	*o Canis Maj.*
	56	49,5	6	58	8,5	59	27,0	8,42	..	...	36½ S	*δ Canis Maj.*
	2	40,0	7	3	59,0	5	18,0	59,04	..	...	59½ S	** Seq. δ Can. Maj.*
	-	-	7	7	54,0	9	22,0	- -	..	...	50½ S	*π Arg. Navis.*
	12	41,0	7	14	3,0	15	23,0	3,04	..	...	42½ S	*η Canis Maj.*
15	35	11,4	23	36	22,5	37	30,6	27,51	..	+	- - -	☉ 1 L.
	37	20,7	23	38	33,0	39	42,0					☉ 2 L.
	15	12,8	6	17	10,5	19	7,6	10,41	1	0,25	66 S	*Canopus.*
	23	0,5	6	24	15,6	25	29,6	15,06	1	0,60	3½ N	*γ Geminorum.*
	27	46,5	6	29	24,0	31	2,0	- -	..	...	56½ S	*ν Navis.*
	33	0,6	6	34	15,5	35	29,6	15,34	1	0,20	29½ S	*Sirius.*
	38	49,0	6	40	13,0	41	37,6	- -	..	...	45½ S	*κ Canis Maj.*
	47	16,5	6	48	38,0	49	59,5	38,05	1	1,05	41½ S	*ε Canis Maj.*
	51	17,0	6	52	34,5	53	50,5	34,17	..	...	36½ S	*o Canis Maj.*
	56	49,8	6	58	9,0	59	26,8	8, 7	1	0,28	59½ S	*δ Canis Maj.*
	2	40,5	7	3	59,0	5	18,6	59,32	1	0,28	59½ S	** Seq. δ Canis Maj.*
	-	-	7	7	54,0	9	22,0	- -	..	...	50 S	*π Arg. Nav.*
	12	42,0	7	14	3,5	15	24,0	3, 3	1	0,26	42½ S	*η Canis Maj.*
16	38	51,5	23	40	2,8	41	13,5	7,68	..	0,97	- - -	☉ 1 L.
	41	2,0	23	42	13,0	43	23,0					☉ 2 L.
	-	-	1	55	50,0	57	2,7	- -	..	...	3½ N	♀ *Centrum.* 2ʰ 23′ 13″,74 mean Time.
	30	9,0	2	31	22,5	32	37,5	23,44	..	—	3 S	☽ 1 L. 2ʰ 58′ 41″,38 mean Time.
	15	13,0	6	17	10,0	19	7,5	10,19	1	0,22	66 S	*Canopus.*
	27	48,0	6	29	25,5	31	2,0	- -	..	+	56½ S	*ν Navis.*
	33	2,0	6	34	16,0	35	30,0	16,04	1	0,70	29½ S	*Sirius.*
	38	50,5	6	40	14,0	41	37,6	- -	..	...	45½ S	*κ Canis Maj.*
	47	17,5	6	48	39,0	49	59,5	38, 8	1	0,75	41½ S	*ε Canis Maj.*
	51	18,0	6	52	34,0	53	51,0	34,29	1	0,12	36½ S	*o Canis Maj.*
	56	50,5	6	58	9,5	59	28,0	9,42	1	0,72	39½ S	*δ Canis Maj.*
	2	41,0	7	4	0,5	5	19,0	0,30	..	...	39½ S	** Seq. δ Canis Maj.*
	12	43,0	7	14	4,5	15	25,0	4, 5	..	...	42½ S	*η Canis Maj.*
	24	41,5	7	26	52,0	28	3,0	- -	..	...	7½ S	*Procyon.*
	30	53,5	7	31	13,0	32	33,0	- -	..	...	15½ N	*Pollux.*

IMMERSION of JUPITER's *fourth* Satellite.
Time by Clock (S.) 8ʰ 48′ 23″. Mean Time 9ʰ 14′ 49″,49.
Planet high and clear: Dark: Observation not satisfactory.

In the YEAR M.DCCCXII.

DAY OF THE MONTH.	I. Wire. M S	MERIDIAN. H M S	III. Wire. M S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names* or *Characters* of the STARS AND PLANETS.
MARCH 16		EMERSION of JUPITER's *first* Satellite. Mean by 3 Observers 10h 38′ 48″. Mean Time 11h 4′ 46″,49. Planet high and clear: Dark: Observation satisfactory.						
		EMERSION of JUPITER's *fourth* Satellite. Time by Clock (S.) 11h 0′ 43″. Mean Time 11h 26′ 37″,91. Planet sufficiently high and clear: Dark: Observation satisfactory.						
17	42 30,5	23 43 42,0	44 53,6	47,20	1	+ 1,52	- - -	⊙ 1 L.
	44 41,8	23 45 52,6	47 3,6					⊙ 2 L.
	The Vertical Wires of the Transit Telescope (which it appears had been some time fixed) being very thick, it was exceedingly difficult to observe correctly,—took these Wires out, and replaced them by Fibres of a Grass Thread, nearly as thin as Cobweb, and adjusted the Instrument.—The passage of the Celestial Objects, at the edges of the first and third of the former Wires, was used, in order to make the Observations as correct as such Wires would give them—the *Center* of the Meridian Wire was taken, as near as the Observer could judge of the object being upon it, liable of course to some degree of uncertainty.							
	59 7,5	2 0 22,8	1 35,5	22,78	..	...	½ S	♀ *Centrum.* 2h 23′ 49″,11 mean Time.
	51 16,0	6 52 36,0	53 53,0	35,84	..	...	36½ S	ο *Canis Maj.*
	53 49,0	6 58 11,0	59 30,0	10,83	..	...	39½ S	δ *Canis Maj.*
	2 39,5	7 4 1,0	5 20,3	1,03	..	...	39½ S	∗ *Seq.* δ *Canis Maj.*
	12 40,0	7 14 4,5	15 26,0	4,55	..	...	42½ S	ν *Canis Maj.*
	55 38,7	7 53 58,6	58 16,5	- -	..	...	36½ S	ρ *Arg. Nav.*
18	46 9,0	23 47 23,3	48 33,8	27,86	..	...	- - -	⊙ 1 L.
	48 18,6	23 49 32,5	50 43,8					⊙ 2 L.
	At Sun-set found the Instrument a little out of adjustment both in Collimation and the Meridian,—adjusted it as near as it could be done for bushes which had grown up rather in the way of the Marks, and were at times blown across, hiding them in a great measure from view, and making the adjustments in some degree uncertain.							
	Lengthened the Pendulum 3 Divisions. Set the Clock 16″,5 faster than before.							
	34 34,0	6 35 47,0	- -	- -	..	...	20½ S	*Sirius.*
	- -	6 48 55,5	50 18,0	- -	..	...	41½ S	ε *Canis Maj.*
	2 56,0	7 4 17,0	5 35,0	16,83	..	...	39½ S	∗ *Seq.* δ *Canis Maj.*
	37 44,0	7 39 5,0	40 22,5	4,08	..	...	37½ S	ξ *Arg. Navis.*
	55 54,4	7 57 14,0	58 31,5	14,24	..	...	37½ S	ρ *Arg. Navis.*
	12 44,4	8 13 57,1	15 7,6	- -	..	...	16½ S	*Double* ∗ *Monoc.*
	32 17,0	8 33 44,5	35 8,0	44,4	..	...	45½ S	α *Pyx. Nautic.*
19	50 0,0	23 51 14,6	52 25,4	18,97	..	...	- - -	⊙ 1 L.
	52 10,0	23 53 24,6	54 35,0					⊙ 2 L.
	8 23,8	2 9 39,8	10 52,8	39,50	..	...	30 N	♀ *Centrum.* 2h 24′ 53″,55 mean Time.
	39 2,0	6 40 28,5	41 52,6	28,65	..	...	45½ S	ν *Canis Maj.*
	47 30,4	6 48 53,5	50 14,	53,45	..	...	41½ S	ε *Canis Maj.*
	51 30,0	6 52 49,5	54 7,6	49,59	..	...	36½ S	ο *Canis Maj.*
	57 3,0	6 58 24,3	59 43,0	24,23	..	...	39½ S	δ *Canis Maj.*
	2 53,6	7 4 15,0	5 34,0	14,98	..	...	39½ S	∗ *Seq.* δ *Can. Maj.*
	12 55,0	7 14 19,0	15 40,0	18,85	..	...	42½ S	ν *Canis Maj.*
	18 48,3	7 20 15,0	21 38,6	14,85	..	...	19½ N	*Castor.*
	25 53,4	7 27 6,5	28 17,5	6,05	..	...	7½ S	*Procyon.*
	30 4,0	7 31 27,0	32 47,8	27,04	..	...	15½ N	*Pollux.*
	37 43,0	7 39 3,0	40 20,8	3,09	..	...	37½ S	ξ *Arg. Nav.*
	52 15,5	8 33 42,8	55 6,0	42,67	..	...	45½ S	α *Pyx. Nautic.*
20	33 37,6	23 54 51,5	56 0,8	55,43	..	...	- - -	⊙ 1 L.
	55 47,5	23 57 0,0	58 11,6					⊙ 2 L.

In the YEAR M.DCCCXII.

DAY of the MONTH.	I. Wire.	Meridian.	III. Wire.	Reduction of Wires.	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS and PLANETS.
	M S	H M S	M S	S				
MARCH 20	Examined the Line of Collimation and Meridian adjustment: found them a very little out, and put them right.							
	24 10,0	6 25 29,0	26 46,0	29,13	..	...	5½ N	☽ 1 L. 6h 36′ 12″,75 mean Time.
	57 0,0	6 58 22,4	59 21,5	22,16	..	...	59½ S	*δ Canis Maj.*
	18 45,5	7 20 12,4	21 37,7	12,62	..	...	16½ N	*Castor.*
	25 51,5	7 27 4,6	28 15,5	4,57	..	...	7½ S	*Procyon.*
	30 1,4	7 31 25,5	32 46,2	25,4	..	...	15½ N	*Pollux.*
21	57 14,5	23 58 28,8	59 39,8	33,13	..	...		☉ 1 L.
	59 24,5	0 0 38,0	1 49,0		..	...	- - -	☉ 2 L.
	17 26,4	2 18 42,5	19 55,5	42,27	..	...	2½ N	♀ *Centrum.* 2h 26′ 10″,62 mean Time.
	IMMERSION of JUPITER's *third* Satellite. Mean by two Observers 6h 39′ 40″. Mean Time 6h 46′ 26″,03. Planet in an aukward position, being near the Zenith: Clear, but still twilight; and ☽ near ♃: Observation otherwise satisfactory.							
	47 55,0	6 48 55,0	50 12,6	55,00	..	...	41½ S	*ε Canis Maj.*
	51 26,6	6 52 47,0	54 6,6	47,24	1	2,35	36½ S	*o Canis Maj.*
	57 0,0	6 58 22,0	59 41,0	21,83	1	0,83	39½ S	*β Canis Maj.*
	2 54,4	7 4 12,5	5 31,0	12,43	2	2,55	39½ S	✱ *Seq. δ Can. Maj.*
	12 53,0	7 14 16,5	15 37,6	16,5	2	1,17	42½ S	*η Canis Maj.*
	19 34,6	7 20 55,5	22 9,9	55,22	..	...	- - -	☽ 1 L. 7h 27′ 32″,49 mean Time.
	25 53,5	7 27 5,0	28 14,0	4,87	1	0,3	7½ S	*Procyon.*
	30 1,0	7 31 25,5	32 46,8	25,29	1	0,1	15½ N	*Pollux.*
	13 55,0	8 16 16,5	18 34,0	16,53	..	...	72½ S	*ε Arg. Nav.*
	32 14,0	8 33 40,5	35 4,0	40,65	..	...	46½ S	*α Pyx. Nautic.*
22	0 52,0	0 2 5,5	3 16,5	10,17	..	...		☉ 1 L.
	3 1,5	0 4 15,6	5 25,7		..	...	- - -	☉ 2 L.
	21 59,5	2 23 16,0	24 29,6	15,82	..	...	- - -	♀ *Centrum.* 2h 26′ 48″,48 mean Time.
	EMERSION of JUPITER's *second* Satellite. Time by Clock (S.) 6h 20′ 14″. Mean Time 6h 23′ 8″,03. Planet near the Zenith: ☽ up, and twilight: Observation not satisfactory.							
	47 26,5	6 48 50,0	50 10,8	49,92	..	...	41½ S	*ε Canis Maj.*
	51 26,5	6 52 46,0	54 3,5	46,09	1	1,15	36½ S	*o Canis Maj.*
	56 59,0	6 58 20,7	59 40,0	20,68	1	1,15	39½ S	*δ Canis Maj.*
	2 50,5	7 4 12,5	5 31,5	12,32	1	0,11	39½ S	✱ *Seq. δ Canis Maj.*
	12 52,0	7 14 15,0	15 36,5	- -	..	...	42½ S	*η Canis Maj.*
	29 59,2	7 31 23,3	32 44,7	23,47	1	1,82	15½ N	*Pollux.*
	37 29,0	7 38 57,5	40 14,2	57,69	..	...	37½ S	*ξ Arg. Nav.*
	13 0,0	8 14 18,0	15 35,0	18,00	..	...	- - -	☽ 1 L. 8h 16′ 53″,69 mean Time.
	- - -	8 33 38,0	35 1,5	- -	..	...	45½ S	*α Pyx. Nautic.*
23	4 30,0	0 5 42,6	6 54,4	47,79	1	1,21	- - -	☉ 1 L.
	6 59,0	0 7 55,0	9 3,5					☉ 2 L.
	26 31,5	2 27 50,4	29 1,0	50,57	..	...	- - -	♀ *Centrum.* 2h 27′ 26″,81 mean Time.
	38 38,0	6 40 24,4	41 48,0	21,6	..	...	45½ S	*α Canis Maj.*
	47 25,5	6 48 49,0	50 10,0	48,97	1	0,95	41½ S	*ε Canis Maj.*
	51 26,0	6 52 46,0	54 3,5	45,96	1	1,13	36½ S	*o Canis Maj.*
	56 58,1	6 58 20,0	59 39,4	20,03	1	0,65	39½ S	*δ Canis Maj.*
	2 53,0	7 4 11,0	5 29,5	10,96	1	1,36	39½ S	✱ *Seq. δ Can. Maj.*
	12 51,0	7 14 15,5	15 37,0	15,35	..	...	42½ S	*η Canis Maj.*
	18 45,0	7 20 10,0	21 34,0	10,37	..	...	19½ N	*Castor.*
	25 49,0	7 27 4,0	28 15,4	3,62	..	...	7½ S	*Procyon.*
	- - -	7 31 23,5	32 44,0	23,5	..	...	15½ N	*Pollux.*
	37 38,0	7 38 58,5	40 16,0	58,52	..	...	37½ S	*ξ Arg. Nav.*
	- - -	8 16 15,0	18 32,5	- -	..	...	72½ S	*ε Arg. Nav.*

In the YEAR M.DCCCXII.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
MARCH 24	8	7,0	0	9	20,0	10	30,0	24,61	..	...	- - -	⊙ 1 L.
	10	16,5	0	11	29,5	12	40,5					⊙ 2 L.
	31	9,0	2	32	25,4	33	39,0	25,25	..	...	- - -	♀ *Centrum.* 2h 23′ 6″,10 mean Time.
	3	23,5	7	4	45,5	6	4,0	- -	..	...	39¼ S	*Canis Maj.*
	12	50,0	7	14	14,0	15	35,2	13,9	..	...	42¼ S	*μ Canis Maj.*
	18	41,0	7	20	9,4	21	32,0	9,32	..	...	19¼ N	*Castor.*
	25	48,8	7	27	4,0	-	- -	4,05	..	...	7¼ S	*Procyon.*
	29	57,8	7	31	22,0	32	42,4	21,64	..	...	15¼ N	*Pollux.*
	37	37,5	7	38	58,0	40	15,0	57,76	..	...	37¼ S	*ξ Arg. Nav.*
	55	47,5	7	57	8,0	53	25,0	7,89	..	...	37¼ S	*β 1 Arg. Nav.*
	59	36,0	8	1	20,5	3	3,0	20,76	..	...	60 S	*γ Arg. Nav.*
	13	53,4	8	16	14,7	18	32,0	14,71	..	...	79¼ S	*ε Arg. Nav.*
	50	30,5	8	32	30,6	34	26,4	- -	..	...	65¼ S	*F Arg. Nav.*
	12	2,0	8	43	53,0	45	40,0	52,79	..	...	55¼ N	*ι Urs. Maj.*
25	11	45,0	0	12	59,0	14	10,5	3,7	..	...	- - -	⊙ 1 L.
	13	54,5	0	15	9,4	16	19,6					⊙ 2 L.
	51	33,0	6	52	50,5	54	4,5	- -	..	...	28¼ S	*γ Canis Maj.*
	56	59,4	6	58	20,1	59	39,0	20,18	..	...	39¼ S	*δ Canis Maj.*
	12	51,0	7	14	15,0	5	36,4	14,9	..	...	42¼ S	*μ Canis Maj.*
	30	0,0	7	31	22,5	32	44,8	23,74	..	...	15¼ N	*Pollux.*

EMERSION of JUPITER's *first* Satellite.
Time by Clock (S.) 7h 32′ 35″. Mean Time 7h 29′ 28″,86.
Planet high and clear: ☽ up, but far from ☿: Observation good.

	55	48,0	7	57	8,4	53	25,5	8,24	..	...	37¼S	*β 1 Arg. Nav.*
	13	54,-	8	16	15,-	18	32,5	15,39	..	...	79¼ S	*ε Arg. Nav.*
	50	29,0	8	32	29,6	34	26,5	- -	..	+	65¼ S	*F Arg. Nav.*
	12	2,0	8	43	53,5	15	41,0	53,29	1	0,5	55¼ N	*ι Urs. Maj.*
	16	32,0	8	48	2,0	50	6,5	20,41	..	...	34¼ N	*κ Urs. Maj.*
26	15	23,5	0	16	37,0	17	48,4	41,68	..	...	- - -	⊙ 1 L.
	17	33,0	0	18	47,0	19	57,0					⊙ 2 L.
	10	23,0	2	41	39,6	42	53,8	39,58	..	...	8¼ N	♀ *Centrum.* 2h 29′ 25″,64 mean Time.
	12	51,8	7	14	15,4	15	35,8	15,2	1	0,3	42¼ S	*μ Canis Maj.*
	37	39,6	7	38	59,0	40	15,8	58,54	2	0,54	37¼ S	*ξ Arg. Nav.*
	55	48,0	7	57	8,0	53	24,8	7,97	1	−0,27	37¼ S	*β 1 Arg. Nav.*
	13	54,0	8	16	15,0	18	32,0	15,01	1	0,38	72 S	*ε Arg. Nav.*
	-	- -	8	48	20,2	50	6,0	20,2	1	0,21	34¼ N	*κ Urs. Maj.*
27	19	2,0	0	20	16,0	21	27,5	20,91	..	...	- - -	⊙ 1 L.
	21	12,8	0	22	26,0	23	37,0					⊙ 2 L.
	15	1,5	2	46	17,0	47	32,0	- -	..	+	5¼ N	♀ *Centrum.* 2h 30′ 5″,71 mean Time.
	12	53,0	7	14	17,0	15	37,5	16,72	1	1,5	42¼ S	*μ Canis Maj.*
	18	46,3	7	20	13,0	21	36,0	12,7	..	...	19¼ N	*Castor.*
	25	50,5	7	27	5,0	28	16,0	4,6	3	1,35	7¼ S	*Procyon.*
	30	6,0	7	31	26,5	32	46,4	26,94	2	1,73	15¼ N	*Pollux.*
	37	40,0	7	39	1,0	40	18,5	0,76	1	1,9	37¼ S	*ξ Arg. Nav.*
	13	55,5	8	16	17,0	18	35,5	17,26	..	...	72¼ S	*ε Arg. Nav.*
	42	3,8	8	43	54,7	45	43,4	54,94	2	0,67	55¼ N	*ι Urs. Maj.*
	-	- -	8	48	22,0	50	6,0	22,00	1	1,8	34¼ N	*κ Urs. Maj.*
28	22	41,5	0	23	55,5	25	6,6	59,68	..	...	- - -	⊙ 1 L.
	24	50,0	0	26	4,8	27	15,5					⊙ 2 L.
29	26	21,5	0	27	35,0	28	45,5	39,41	..	...	- -	⊙ 1 L.
	28	30,5	0	29	44,8	30	55,0					⊙ 2 L.
	37	43,0	7	39	3,5	40	21,0	3,39	..	...	37¼ S	*ξ Arg. Nav.*
	55	53,0	7	57	12,7	58	30,5	- -	..	...	37¼ S	*β 1 Arg. Nav.*
	13	58,0	8	16	19,5	18	37,0	19,52	1	2,26	72¼ S	*ε Arg. Nav.*
	42	7,0	8	43	57,5	45	45,0	57,54	1	2,60	55¼ N	*ι Urs. Maj.*
	46	26,0	8	48	25,5	50	10,7	25,22	..	...	34¼ N	*κ Urs. Maj.*
	5	45,0	9	7	15,0	8	42,0	- -	..	...	22¼ N	✱ *Lyn.*

In the YEAR M.DCCCXII.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
MARCH 30	30	0,0	0	31	15,0	32	25,6	19,16	..	. . .	- - -	☉ 1 L.
	32	10,4	0	33	23,8	34	35,0					☉ 2 L.
	55	54,4	7	57	15,0	58	31,5	14,74	..	. . .	37½ S	β *Arg. Navis.*
	12	45,0	8	13	58,0	15	9,0	- -	..	. . .	16½ S	✳ *Monocer.*
	42	8,5	8	43	59,0	45	47,0	59,17	..	. . .	55¾ N	ι *Urs. Maj.*
	46	38,0	8	48	27,3	50	12,5	27,07	..	. . .	34½ N	κ *Urs. Maj.*
	5	47,5	9	7	17,6	8	43,8	- -	..	. . .	22½ N	✳ *Lyncis*
31	33	40,0	0	34	54,5	36	5,4	58,0	..	. . .	- - -	☉ 1 L.
	35	50,0	0	37	3,8	38	15,0					☉ 2 L.
	Wound up the Clock; Arc of Vibration 1°: 38'.—The Clock stopped four or five seconds while winding, in consequence of the machinery for keeping it going not having acted properly at first.											
	13	55,5	8	16	17,6	18	35,0	17,15	..	. . .	72½ S	ε *Arg. Nav.*
	-	- -	8	32	33,0	34	28,5	- -	..	. . .	66½ S	F *Arg. Nav.*
	-	- -	8	37	10,0	39	10,0	- -	..	. . .	67½ S	δ *Arg. Nav.*
	42	6,0	8	43	56,4	45	43,0	56,24	..	. . .	35½ N	ι *Urs. Maj.*
	46	34,0	8	48	23,0	50	8,5	22,91	..	. . .	34¼ N	κ *Urs. Maj.*
	7	23,0	9	9	43,0	12	11,5	- -	..	. . .	72½ S	ι *Arg. Nav.*
APRIL 1	37	14,0	0	38	27,5	39	59,4	32,36	..	. . .	- - -	☉ 1 L.
	39	23,0	0	40	36,0	41	48,0					☉ 2 L.
	12	43,0	8	13	55,4	15	5,0	- -	..	. . .	16½ S	✳ *Monocer.*
	42	6,0	8	43	57,0	45	44,0	56,79	..	. . .	35½ N	ι *Urs. Maj.*
	53	35,0	8	55	25,0	57	8,0	- -	..	. . .	59½ S	✳ *Arg. Nav.*
	EMERSION of JUPITER's *first* Satellite. Time by Clock (S.) 10ʰ 1′ 50″. Mean Time 9ʰ 24′ 45″,16. Planet high, but hazy.											
2	40	54,5	0	42	7,5	43	19,4	12,2	..	+	- - -	☉ 1 L.
	43	3,0	0	44	16,6	45	28,0					☉ 2 L.
	42	8,0	8	43	59,4	45	46,0	58,99	1	2,1	35½ N	ι *Urs. Maj.*
	46	37,5	8	48	25,8	50	11,5	25,6	2	1,41	34¼ N	κ *Urs. Maj.*
	Lengthened the Pendulum 4 Divisions—Index at 13. Set the Clock going.											
4	48	9,5	0	49	23,0	50	35,6	28,25	..	. . .	- - -	☉ 1 L.
	50	19,1	0	51	31,5	52	44,8					☉ 2 L.
	22	31,0	3	23	49,4	25	5,5	49,38	..	. . .	7½ N	♀ *Centrum.* 2ʰ 36′ 1″,21 mean Time.
	-	- -	8	31	3,5	32	14,0	3,89	..	. . .	8½ S	ν *Hydræ.*
	35	6,0	8	37	10,0	39	11,5	10,02	..	. . .	67½ S	δ *Arg. Nav.*
	42	5,5	8	43	56,0	45	44,0	56,17	..	. . .	35½ N	ι *Urs. Maj.*
	46	34,0	8	48	24,0	50	10,5	23,91	..	. . .	34¼ N	κ *Urs. Maj.*
	-	- -	8	55	20,0	57	3,0	20,00	..	. . .	59½ S	C *Arg. Nav.*
	-	- -	8	58	45,0	0	19,5	45,0	..	. . .	55½ S	λ *Arg. Nav.*
	-	- -	9	3	40,5	5	55,0	40,5	..	. . .	71½ S	α *Arg. Nav.*
	-	- -	9	13	58,4	15	59,0	58,4	..	. . .	67½ S	K *Arg. Nav.*
	19	25,0	9	20	58,0	22	30,0	- -	..	. . .	52½ S	ψ *Arg. Nav.*
	31	29,0	9	32	49,0	34	7,0	49,03	..	. . .	11½ N	ε *Leonis.*
5	51	45,5	0	53	0,0	54	10,5	4,20	..	. . .	- - -	☉ 1 L.
	53	55,0	0	55	9,0	56	21,0					☉ 2 L.
	55	50,0	7	57	9,5	58	27,4	9,5	..	. . .	37½ S	β *Arg. Nav.*
	13	54,3	8	16	16,5	18	34,0	16,35	..	—	72 S	ε *Arg. Nav.*
	29	50,0	8	31	1,6	32	12,0	1,85	1	2,04	8½ S	ν *Hydræ.*
	55	4,0	8	37	8,0	39	9,5	8,02	1	2,00	67½ S	δ *Arg. Nav.*
	42	3,5	8	43	55,0	45	41,8	54,62	1	1,55	35½ N	ι *Urs. Maj.*
	46	32,0	8	48	22,0	-	- -	22,00	1	1,91	34¼ N	κ *Urs. Maj.*

In the YEAR M.DCCCXII.

DAY of the MONTH.	I. Wire. M	S	Meridian. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.		*Names or Characters of the* STARS and PLANETS.
April 5	1	20,0	9	3	38,8	5	53,0	38,66	1	1,24	71½	S	*α Arg. Nav.*
	7	21,0	9	9	42,0	11	58,0	41,76	..	...	71½	S	*ι Arg. Nav.*
	-	-	9	13	56,4	15	57,0	56.4	1	2,00	67½	S	*K Arg. Nav.*
	-	-	9	20	56,5	22	28,0	56,5	1	1,96	52½	S	*ψ Arg. Nav.*
	31	26,5	9	32	47,5	34	5,5	47,3	1	1,75	11½	N	*ε Leonis.*
6	55	22,4	0	56	37,0	57	46,5	40,99	..	...	-	- -	☉ 1 L.
	57	33,0	0	58	46,0	59	56,8						☉ 2 L.
	31	55,5	3	33	14,0	34	30,4	14,08	..	...	7½	N	♀ *Centrum.* 2h 37′ 37″,79 mean Time.
	35	1,8	8	37	6,0	39	6,5	5,72	1	2,80	67½	S	*δ Arg. Nav.*
	42	1,0	8	43	51,5	45	39,5	51,67	1	2,95	35½	N	*ι Urs. Maj.*
	46	30,6	8	48	19,5	50	4,8	19.29	1	2,77	34½	N	*κ Urs. Maj.*
	1	17,6	9	3	36,5	5	50,6	36,51	1	2,35	71½	S	*α Arg. Nav.*
	7	18,5	9	9	39,0	11	55,5	39,01	1	2,75	71½	S	*ι Arg. Nav.*
	-	-	9	13	53,6	15	54,0	53,6	1	2,8	67½	S	*K Arg. Nav.*
	19	18,0	9	20	53,6	22	23,6	53,41	1	3,09	52½	S	*ψ Arg. Nav.*
	31	23,8	9	32	44,6	34	2,0	44,30	1	3,00	11½	N	*ε Leonis.*
7	56	57,0	8	58	37,0	0	13,9	36,86	3	2,71	55½	S	*λ Arg. Nav.*
	-	-	9	15	53,0	17	4,0	53,00	..	...	20½	S	*α Hydræ.*
	19	15,0	9	20	50,0	22	21,0	49,71	..	...	52½	S	*ψ Arg. Nav.*
	31	20,5	9	32	41,5	33	59,0	41,17	1	3,13	11½	N	*ε Leonis.*
8	2	34.5	1	3	48,0	4	59,6	52,71	..	...	-	- -	☉ 1 L.
	4	43,5	1	5	58,0	7	9,0						☉ 2 L.
	41	54,0	8	43	45,4	45	33,0	45,39	2	3.14	35½	N	*ι Urs. Maj.*
	46	23,5	8	48	15,0	49	58,6	12,66	2	2,8	34½	N	*κ Urs. Maj.*
	-	-	9	9	30,0	11	46,6	- -	..	...	71½	S	*ι Arg. Nav.*
	31	18,0	9	32	38,8	33	56,6	38,45	..	...	11½	N	*ε Leonis.*
9	6	11,0	1	7	24,4	8	36,6	29,79	..	...	-	- -	☉ 1 L.
	8	20,5	1	9	35,0	10	46,5						☉ 2 L.
	59	23,0	8	1	10,4	2	53,0	9,96	..	...	60	S	*γ Arg. Nav.*
	13	42,5	8	16	4,0	18	21,5	4,02	..	...	72	S	*ε Arg. Nav.*
	29	55,8	8	30	49,0	32	0,0	49,04	5	2,98	84½	S	*η Hydræ.*
	36	7,0	8	37	25,0	38	31,0	25,00	..	...	15½	S	
	41	51,0	8	43	42,0	45	30,0	42,04	..	...	55½	N	*ι Urs. Maj.*
	46	20,6	8	48	10,0	49	55,4	9,78	1	2,88	34½	N	*κ Urs. Maj.*
	53	20,5	8	55	7,0	56	49,0	6,69	5	2,66	59½	S	*C Arg. Nav.*
	-	-	8	58	31,0	0	7,5	31,00	1	3,45	55½	S	*λ Arg. Nav.*
	1	9,0	9	3	26,5	5	41,6	26,76	3	3,18	71½	S	*α Arg. Nav.*
	7	10,0	9	9	29,5	11	45,4	29,51	..	...	71½	S	*ι Arg. Nav.*
	-	-	9	13	44,0	15	45,4	44,00	..	...	67½	S	*K Arg. Nav.*
	19	9,5	9	20	44,0	22	16,0	44.09	2	2,81	52½	S	*ψ Arg. Nav.*
	31	15,0	9	32	35,5	33	55,	35,3	1	3,15	11½	N	*ε Leonis.*
	At 23h A. M. shortened the Pendulum 2 Divisions—Set the Clock to the same time as before.												
10	9	47,0	1	11	2,0	12	13,5	6,20	..	...	-	- -	☉ 1 L.
	11	57,0	1	13	12,0	14	22,4						☉ 2 L.
	29	33,5	8	30	45,0	31	58,0	45,00	..	...	84½	S	*η Hydræ.*
	41	47,6	8	43	38,5	45	25,8	38,39	1	3,65	35½	N	*ι Urs. Maj.*
	-	-	8	48	5,5	49	51,8	5,5	..	...	34½	N	*κ Urs. Maj.*
	53	17,9	8	-	-	56	45,0	- -	1	3,39	59½	S	*C Arg. Nav.*
	-	-	8	58	28,0	0	4,0	28,00	1	3,00	55½	S	*λ Arg. Nav.*
	1	5,4	9	3	22,5	5	38,0	23,61	1	3,15	71½	S	*α Arg. Nav.*
	14	28,4	9	15	43,0	16	54,2	42,68	..	...	21	S	*α Hydræ.*
	19	5,5	9	20	40,0	22	12,4	40,29	..	...	52½	S	*ψ Arg. Nav.*
	31	10,5	9	32	31,0	33	49,5	31,05	..	...	11½	N	*ε Leonis.*
	54	30,0	9	55	42,8	-	-	42,8	..	...	4	S	*Regulus.*
	5	59,6	10	6	57,7	8	13,4	57,66	..	...	7½	N	*γ Leonis.*
11	13	25,0	1	14	40,0	15	52,5	45,92	..	...	-	- -	☉ 1 L.
	15	35,4	1	16	51,0	18	1,4						☉ 2 L.
	55	36,0	3	56	56,0	58	12,5	55,69	..	...	9½	N	♀ *Centrum.* 2h 41′ 48″,81 mean Time.
	55	33,0	7	56	53,3	58	10,0	53,3	..	...	37½	S	*β Arg. Nav.*

In the YEAR M.DCCCXII.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.		*Names or Characters* of the STARS AND PLANETS.
APRIL 11	-	-	8	1	4,0	2	48,0	4,0	..	...	60	S	*γ Arg. Nav.*
	13	38,5	8	15	59,0	18	17,5	59,52	..	...	72	S	*ε Arg. Nav.*
	29	31,0	8	30	43,6	31	55,0	43,85	1	1,15	8½	S	*η Hydræ.*
	41	47,5	8	43	37,5	45	29,0	37,67	1	0,72	35½	N	*ι Urs. Maj.*
	-	-	8	48	5,0	49	50,0	5,0	1	0,5	34½	N	*χ Urs. Maj.*
	53	16,0	8	55	2,0	56	45,0	2,07	1	1,32	59½	S	*C Arg. Nav.*
	-	-	8	58	27,0	0	2,0	27.0	1	1,00	55½	S	*λ Arg. Nav.*
	1	3,5	9	3	21,4	5	36,5	21,71	..	...	71½	S	*α Arg. Nav.*
	7	6,4	9	9	25,0	11	41,0	25,36	..	...	71½	S	*ι Arg. Nav.*
	14	28,0	9	15	42,0	16	58,4	41,88	1	0,80	21	S	*α Hydræ.*
	19	4,8	9	20	40,0	22	11,8	39,86	1	0,43	52½	S	*ψ Arg. Nav.*
	-	-	10	3	4,0	4	42,0	4,0	..	...	30½	N	*λ Urs. Maj.*
	5	39,0	10	6	57,0	8	12,5	56,93	1	0,73	7½	N	*γ Leonis.*
12	17	4,5	1	18	19,0	19	39,0	23,62	..	...	-	-	☉ 1 L.
	19	14,5	1	20	29,0	21	40,5		..	...			☉ 2 L.
	13	35,5	8	15	56,8	18	14,5	56,9	..	...	72	S	*ε Arg. Nav.*
	34	45,5	8	36	50,0	38	50,5	49,65	..	...	67½	S	*δ Arg. Nav.*
	41	45,9	8	43	36,0	45	23,5	35,99	1	1,68	35½	N	*ι Urs. Maj.*
	46	15,0	8	48	3,5	49	49,0	3,58	1	1,42	34½	N	*χ Urs. Maj.*
	53	14,0	8	55	0,0	56	43,5	0,19	1	1,88	59½	S	*C Arg. Nav.*
	-	-	8	58	25.0	-	-	25.0	1	2,0	55½	S	*λ Arg. Nav.*
	1	1,3	9	3	19,0	5	34,0	19,34	..	...	71½	S	*α Arg. Nav.*
	7	4,0	9	9	23,5	11	39,0	23,51	1	1,85	71½	S	*ι Arg. Nav.*
	14	26,5	9	15	40.5	16	52,0	40.4	1	1,48	21	S	*α Hydræ.*
	19	3,0	9	20	38,5	22	10,0	38,21	1	1,65	52½	S	*ψ Arg. Nav.*
	31	9,0	9	32	29,0	33	47,0	29,05	1	1,65	11½	N	*ε Leonis.*
	-	-	9	-	-	37	12,0	-	..	...	46½	N	*υ Urs. Maj.*
	-	-	10	3	2,8	4	40,0	-	..	...	30½	N	*λ Urs. Maj.*
	5	37,0	10	6	55,5	8	11,0	55,31	1	1,62	7½	N	*γ Leonis.*
13	20	41,5	1	21	58,0	23	10.0	2,64	..	...	-	-	☉ 1 L.
	22	53,6	1	24	9,0	25	19,5		..	...			☉ 2 L.
	13	36,0	8	15	57,5	18	13,8	57,22	..	...	72	S	*ε Arg. Nav.*
	34	44,6	8	36	49,0	38	49,0	48,55	1	1,10	67½	S	*δ Arg. Nav.*
	41	45,0	8	43	35,0	45	22,0	35,64	1	0,95	35½	N	*ι Urs. Maj.*
	46	13,4	8	48	2,5	49	48,0	2,38	1	1,20	34½	N	*χ Urs. Maj.*
	53	13,0	8	54	59,0	56	42,0	59,07	1	1,12	59½	S	*C Arg. Nav.*
	-	-	8	58	23,5	-	-	23,5	1	1,50	55½	S	*λ Arg. Nav.*
	1	1,5	9	3	20.0	5	34,0	19,89	..	...	71½	S	*α Arg. Nav.*
	7	3,0	9	9	22,0	11	38,0	22,26	1	1,25	71½	S	*ι Arg. Nav.*
	14	25.0	9	15	39,0	16	50,6	38,93	1	1,47	21	S	*α Hydræ.*
	19	2,5	9	20	37,4	22	8,8	37,24	1	0,97	52½	S	*ψ Arg. Nav.*
	31	7,0	9	32	27,5	33	46,0	27,55	1	1,50	11½	N	*ε Leonis.*
	-	-	9	-	-	37	10,8	-	..	...	46½	N	*υ Urs. Maj.*
	54	24,8	9	55	39,0	56	51,9	39,21	1	1,82	½	S	*Regulus.*
	1	19,5	10	3	1,5	4	39,4	1,30	..	...	30½	N	*λ Urs. Maj.*
	5	36,0	10	6	54,0	8	9,8	54,0	1	1,31	7½	N	*γ Leonis.*
14	24	23.0	1	25	38,0	26	49,6	42,60	..	...	-	-	☉ 1 L.
	26	32,5	1	27	48,3	29	0,0		..	...			☉ 2 L.
	0	33,0	4	1	50,0	3	5,0	50,26	..	...	2½	N	☽ 1 L. 2ʰ 35′ 00,″32 mean Time.
	9	59,0	4	11	18,6	12	36.4	18,72	..	...	10½	N	♀ *Centrum.* 2ʰ 44′ 27″,25 mean Time.
	13	33,5	8	15	55,0	17	12,5	55,02	1	0,94	72	S	*ε Arg. Nav.*
	34	43,0	8	36	47,5	38	48,0	47,15	1	1,40	67½	S	*δ Arg. Nav.*
	41	43,5	8	43	33,5	45	20,8	33,62	1	1,52	35½	N	*ι Urs. Maj.*
	53	11,3	8	54	57,6	56	40.0	57.44	1	1,63	59½	S	*C Arg. Nav.*
	-	-	8	58	22,0	59	58,4	22,0	1	1,50	55½	S	*λ Arg. Nav.*
	14	23,5	9	15	38,0	16	49,5	37,78	2	1,15	21	S	*α Hydræ.*
	19	0.5	9	20	35,6	2	7,0	35,59	1	1,85	52½	S	*ψ Arg. Nav.*
	54	23,5	9	55	38,0	-	-	38,0	1	1,21	½	S	*Regulus.*
	-	-	10	6	52,7	8	8,4	52,7	1	1,30	7½	N	*γ Leonis.*
15	28	5,5	1	29	17.0	30	29,4	22,77	1	1,23	-	-	☉ 1 L.
	30	13,0	1	31	28,0	32	39,5						☉ 2 L.
	14	48,4	4	16	8,0	17	26,0	8,35	..	...	10½	N	♀ *Centrum.* 2ʰ 45′ 22″,58 mean Time.
	29	25,8	8	30	39,0	31	48,5	38,62	1	1,0	8½	S	*η Hydræ.*
	34	41,6	8	36	46,0	38	46,5	45,67	1	1,48	67½	S	*δ Arg. Nav.*

In the YEAR M.DCCCXII.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters of the* STARS AND PLANETS.
APRIL 15	41	41,0	8	43	32,0	45	19,5	31,92	1	1,70	35½ N	*ι Urs. Maj.*
	46	9,0	8	47	59,0	49	44,5	58,66	2	1,86	34½ N	*μ Urs. Maj.*
	53	10,0	8	54	56,0	56	38,5	55,94	1	1,50	59½ S	*C Arg. Nav.*
	-	-	8	58	20,0	59	57,0	20,0	..	...	55½ S	*λ Arg. Nav.*
	0	58,0	9	3	16,0	5	30,6	16,17	..	...	72½ S	*α Arg. Nav.*
	6	59,0	9	9	19,0	11	34,5	18,89	..	...	71½ S	*ι Arg. Nav.*
	14	22,0	9	15	36,0	16	47,0	35,78	..	...	21 S	*α Hydræ.*
	18	59,0	9	20	34,0	22	5,5	33,83	1	1,56	52½ S	*ψ Arg. Nav.*
	31	4,0	9	32	25,0	33	42,8	24,7	2	1,42	11½ N	*ε Leonis.*
	34	22,0	9	36	29,0	38	32,8	20,0	..	...	42 N	
	54	21,0	9	55	36,0	56	48,5	35,91	1	2,09	½ S	*Regulus.*
	1	16,6	10	2	58,0	4	36,0	57,98	..	...	30½ N	*λ Urs. Maj.*
16	31	43,4	1	32	55,0	34	8,0	0,18	..	...	- - -	☉ 1 L.
	33	52,5	1	35	7,0	36	20,5					☉ 2 L.
	19	36,0	4	20	56,5	22	14,5	56,45	..	...	10½ N	☿ *Centrum.* 2ʰ 46′ 16″,92 mean Time.
	41	39,4	8	43	30,0	45	17,3	29,97	..	...	35½ N	*ι Urs. Maj.*
	46	8,0	8	47	57,3	49	43,0	57,18	1	1,48	34½ N	*μ Urs. Maj.*
	53	8,4	8	54	54,4	56	37,0	54,37	1	1,57	59½ S	*C Arg. Nav.*
	-	-	8	58	19,0	59	55,6	19,0	1	1,00	55½ S	*λ Arg. Nav.*
	0	57,0	9	3	15,0	5	29,0	15,02	1	1,15	72½ S	*α Arg. Nav.*
	6	57,6	9	9	17,4	11	33,0	17,36	1	1,56	71½ S	*ι Arg. Nav.*
	15	26,0	9	17	26,5	19	23,0	26,36	..	...	39½ N	*θ Urs. Maj.*
	-	-	9	25	48,6	27	6,0	48,6	..	...	55½ N	
	34	21,0	9	36	28,0	38	31,0	28,0	..	...	42½ N	*Φ Urs. Maj.*
	54	19,5	9	55	34,6	56	47,0	34,46	1	1,45	½ S	*Regulus.*
	1	15,5	10	2	56,5	4	35,0	56,70	1	1,28	30½ N	*λ Urs. Maj.*
	5	30,5	10	6	49,0	8	5,0	48,93	1	1,95	7½ N	*γ Leonis.*
17	35	23,4	1	36	38,0	37	50,0	42,89	..	...	- - -	☉ 1 L.
	37	33,5	1	38	47,7	40	0,5					☉ 2 L.
	34	38,0	8	36	42,8	38	43,0	- -	1	1,67	67½ S	*δ Arg. Nav.*
	41	38,0	8	43	28,5	45	16,0	28,54	1	1,39	35½ N	*ι Urs. Maj.*
	46	7,0	8	47	56,0	49	41,5	55,91	1	1,27	34½ N	*μ Urs. Maj.*
	53	7,0	8	54	52,8	56	36,0	52,97	1	1,40	59½ S	*C Arg. Nav.*
	-	-	8	58	17,4	59	54,0	17,4	1	1,60	55½ S	*λ Arg. Nav.*
	0	55,0	9	3	14,0	5	28,0	13,76	1	1,26	72½ S	*α Arg. Nav.*
	6	56,0	9	9	16,0	11	32,0	16,01	1	1,35	71½ S	*ι Arg. Nav.*
	15	25,0	9	17	25,0	19	21,5	24,99	1	1,37	39½ N	*θ Urs. Maj.*
			EMERSION of JUPITER's *first* Satellite. Time by Clock (S.) 9ʰ 22′ 35″. Mean Time 7ʰ 43′ 9″,90. Planet high and clear, but near the ☽: Observation good.									
	-	-	9	55	33,0	56	45,5	33,0	1	1,46	½ S	*Regulus.*
	1	14,0	10	2	55,0	4	33,6	55,23	1	1,47	30½ N	*λ Urs. Maj.*
	5	29,0	10	6	48,6	8	3,5	47,68	1	1,25	7½ N	*γ Leonis.*
18	39	3,0	1	40	18,5	41	30,5	23,20	..	...	- - -	☉ 1 L.
	41	13,0	1	42	29,0	43	41,0					☉ 2 L.
	29	15,0	4	30	35,6	31	53,5	- -	..	...	11½ N	☿ *Centrum.* 2ʰ 43′ 4″,09 mean Time.
	54	7,8	7	55	26,6	56	42,0	25,99	..	...	4½ N	☽ 1 L. 6ʰ 12′ 21″,31 mean Time.
	41	36,5	8	43	27,0	45	14,5	27,04	1	1,50	35½ N	*ι Urs. Maj.*
	46	5,5	8	47	55,0	49	40,0	54,66	1	1,25	34½ N	*μ Urs. Maj.*
	53	6,0	8	54	51,5	56	33,8	51,52	1	1,45	59½ S	*C Arg Nav.*
	-	-	8	58	16,0	59	53,0	16,0	1	1,40	55½ S	*λ Arg. Nav.*
	0	54,0	9	3	12,0	5	26,5	12,14	1	1,62	72½ S	*α Arg. Nav.*
	6	55,0	9	9	15,0	11	30,4	14,8	1	1,21	71½ S	*ι Arg. Nav.*
	15	23,5	9	17	23,3	19	20,0	23,39	1	1,60	39½ N	*θ Urs. Maj.*
	30	59,4	9	32	20,0	33	38,0	19,9	3	1,60	11½ N	*ε Leonis.*
	-	-	9	36	26,0	38	28,5	- -	2	1,00	42½ N	*Φ Urs. Maj.*
	-	-	9	55	31,6	56	44,0	31,60	1	1,40	½ S	*Regulus.*
	1	12,5	10	2	53,0	4	34,6	53,0	..	...	30½ N	*λ Urs. Maj.*

In the YEAR M.DCCCXII.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
APRIL 19	42	43,0	1	43	59,0	45	10,0	3,70	..	...	- - -	☉ 1 L.
	44	51,5	1	46	9,5	47	22,0					☉ 2 L.
	34	36,0	8	36	37,0	38	39,0	37,0	..	...	67¼ S	
	41	34,5	8	43	25,9	45	13,0	25,24	1	1,80	35¾ N	ι *Urs. Maj.*
	46	4,0	8	47	53,9	-	-	53,0	1	1,66	34¼ N	κ *Urs. Maj.*
	-	-	8	-	-	49	31,0	- -	..	...	4¼ N	☽ 1 L. 7h 1′ 8″,30 mean Time.
	53	4,4	8	54	40,8	56	32,0	49,82	1	1,70	59¼ S	C *Arg. Nav.*
	-	-	8	58	14,0	59	51,0	14,0	..	...	55½ S	λ *Arg. Nav.*
	0	52,0	9	3	10,5	5	24,5	10,39	1	1,75	72¾ S	α *Arg. Nav.*
	6	52,8	9	9	13,0	11	28,7	12,89	1	1,91	71¼ S	ι *Arg. Nav.*
	15	21,7	9	17	22,0	19	18,0	21,79	1	1,60	39¼ N	θ *Urs. Maj.*
	-	-	9	55	30,0	56	42,0	30,0	1	1,60	¼ S	*Regulus.*
	5	26,0	10	6	41,0	-	-	43,81	..	...	7¼ N	γ *Leonis.*
20	46	25,0	1	47	40,9	48	52,5	45,38	..	...	- - -	☉ 1 L.
	48	35,5	1	49	51,6	51	2,5					☉ 2 L.
	38	54,0	4	40	15,0	41	35,0	14,83	..	...	11¼ N	♀ *Centrum.* 2h 49′ 54″,05 mean Time.
	41	32,6	8	43	23,5	45	10,5	23,32	1	1,92	35¼ N	ι *Urs. Maj.*
	46	2,0	8	47	51,0	49	36,0	50,78	1	2,22	34¼ N	κ *Urs. Maj.*
	53	2,0	8	54	47,6	56	29,6	47,53	1	2,27	59¾ S	C *Arg. Nav.*
	-	-	8	58	11,0	59	48,0	11,00	..	...	55½ S	λ *Arg. Nav.*
	0	49,0	9	3	7,6	5	21,6	7,46	1	2,92	72¼ S	α *Arg. Nav.*
	6	50,0	9	9	10,0	11	25,8	9,95	1	2,94	71¼ S	ι *Arg. Nav.*
	15	19,0	9	17	19,0	19	15,0	18,86	1	2,93	39¼ N	θ *Urs. Maj.*
	30	54,5	9	32	15,5	33	33,4	15,27	2	2,31	11¼ N	ε *Leonis.*
	1	7,6	10	-	-	-	-	- -	..	...	30¼ N	λ *Urs. Maj.*
	5	23,3	10	6	41,5	-	-	- -	..	...	7¼ N	γ *Leonis.*
	32	34,0	10	34	55,0	37	10,0	54,51	..	...	72¼ S	*Rob. Carol.*
	46	27,0	10	49	8,0	51	44,0	7,9	..	...	49¼ N	α *Urs. Maj.*
21	50	6,0	1	51	21,0	52	34,2	26,53	..	...	- - -	☉ 1 L.
	52	17,3	1	53	32,0	54	44,4					☉ 2 L.
	43	43,0	4	45	4,0	46	22,4	3,93	..	...	11¾ N	♀ *Centrum.* 2h 50′ 48″,74 mean Time.
	45	58,5	8	47	47,4	49	33,0	47,4	..	...	34¼ N	κ *Urs. Maj.*
	52	58,8	8	54	44,6	56	27,0	44,57	1	2,9	59¾ S	C *Arg. Nav.*
	-	-	8	58	8,0	59	45,0	8,0	1	3,0	55¼ S	λ *Arg. Nav.*
	0	46,0	9	3	4,5	5	19,0	4,51	1	2,9	72¼ S	α *Arg. Nav.*
	6	47,0	9	9	7,0	11	22,6	6,9	1	3,1	71¼ S	ι *Arg. Nav.*
	15	16,0	9	17	15,8	19	12,3	15,84	1	3,0	39¼ N	θ *Urs. Maj.*
	30	52,0	9	32	19,6	33	31,0	12,60	1	2,6	11¼ N	ε *Leonis.*
	-	-	9	36	18,0	38	23,0	18,0	3	2,8	42¼ N	Φ *Urs. Maj.*
	54	9,0	9	55	23,8	56	37,0	23,93	2	3,03	¼ S	*Regulus.*
	5	21,0	10	6	39,0	-	-	39,0	1	2,6	7¼ N	γ *Leonis.*
	25	53,0	10	27	9,4	-	-	9,40	..	...	34 S	☽ 1 L. 8h 31′ 58″,89 mean Time.
	32	31,0	10	34	52,0	37	7,0	51,51	1	3,0	72¼ S	*Rob. Carol.*
	45	13,0	10	47	29,2	49	40,0	29,2	..	...	44¼ N	β *Urs. Maj.*
	46	25,0	10	49	5,0	51	49,0	4,90	1	3,0	49¼ N	α *Urs. Maj.*
22	53	47,5	1	55	3,0	56	15,0	8,04	..	...	- - -	☉ 1 L.
	55	59,0	1	57	14,0	58	25,5					☉ 2 L.
	48	32,5	4	49	53,0	51	11,4	53,01	..	...	11¼ N	♀ *Centrum.* 2h 51′ 43″,68 mean Time.
	52	56,0	8	54	42,0	56	24,0	41,82	1	2,8	59¾ S	C *Arg. Nav.*
	-	-	8	58	6,0	59	42,5	6,0	1	2,25	55¼ S	λ *Arg. Nav.*
	0	43,0	9	3	1,5	5	16,0	1,51	1	3,0	72¼ S	α *Arg. Nav.*
	6	44,0	9	9	4,0	11	20,0	4,0	1	2,87	71¼ S	ι *Arg. Nav.*
	15	13,0	9	17	13,5	19	9,8	13,31	1	2,6	39¼ N	θ *Urs. Maj.*
	30	49,0	9	32	9,0	33	28,2	9,35	1	3,13	11¼ N	ε *Leonis.*
	-	-	9	36	14,8	38	20,2	14,8	1	3,20	42¼ N	Φ *Urs. Maj.*
	-	-	9	55	21,0	56	34,5	21,0	1	2,65	¼ S	*Regulus.*
	45	10,0	10	47	26,0	49	37,0	25,72	..	...	44¼ N	β *Urs. Maj.*
	46	22,5	10	49	3,0	51	37,0	2,52	1	2,38	49¼ N	α *Urs. Maj.*
23	57	27,5	1	58	44,5	59	57,0	49,46	..	...	- - -	☉ 1 L.
	59	40,0	1	0	55,0	2	8,0					☉ 2 L.
	53	20,4	4	54	42,0	56	0,0	41,37	..	...	12¼ N	♀ *Centrum.* 2h 52′ 39″,08 mean Time.
	56	23,0	8	58	3,0	59	40,0	3,0	1	2,75	55¼ S	λ *Arg. Nav.*
	0	40,0	9	2	59,0	5	13,5	58,89	1	2,7	72¼ S	α *Arg. Nav.*
	6	42,0	9	9	1,0	11	17,0	1,26	1	2,67	71¼ S	ι *Arg. Nav.*

In the YEAR M.DCCCXII.

DAY OF THE MONTH.	I. Wire, M	S	MERIDIAN. H	M	S	III. Wire, M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
APRIL 23	15	10,5	9	17	11,0	19	7,0	10,74	1	2,6	39½ N	θ *Urs. Maj.*
	30	47,0	9	32	7,0	33	26,0	7,3	1	2,0	11½ N	ε *Leonis.*
	-	-	9	36	12,0	38	17,4	12,0	1	2,8	42½ N	Φ *Urs. Maj.*
	54	4,0	9	55	19,0	56	31,6	18,93	1	2,65	½ S	*Regulus.*
	0	59,0	10	2	41,0	4	19,6	40,83	1	2,47	30½ N	λ *Urs. Maj.*
	5	16,0	10	6	33,5	-	-	33,5	2	2,75	7½ N	γ *Leonis.*
	45	8,0	10	47	24,0	49	35,8	23,85	1	2,0	44½ N	β *Urs. Maj.*
	46	20,0	10	49	0,6	51	34,5	0,7	1	2,47	48½ N	α *Urs. Maj.*
24	1	13,4	2	2	27,0	3	40,4	32,61	..	...	- - -	☉ 1 L.
	3	22,0	2	4	38,0	5	50,6					☉ 2 L.
	52	53,0	8	54	36,0	56	18,0	36,0	2	2.91	59½ S	C *Arg. Nav.*
	-	-	8	58	0,3	59	37,0	0,3	1	2,85	55½ S	λ *Arg. Nav.*
	0	38,0	9	2	56,6	5	10,8	56,51	..	...	72½ S	α *Arg. Nav.*
	15	7,5	9	17	8,3	19	4,4	7,99	1	2.77	39½ N	θ *Urs. Maj.*
	30	44,3	9	32	5,0	33	23,0	4.87	1	2,9	11½ N	ε *Leonis.*
	0	57,0	10	2	38,0	4	17,0	38,33	1	2.83	30½ N	λ *Urs. Maj.*
	5	13,0	10	6	30,8	-	-	30,8	1	2,77	7½ N	γ *Leonis.*

EMERSION of JUPITER's *first* Satellite.
Time by Clock (S.) 11h 46' 55". Mean Time 9h 39' 51",06.
Planet low and in the thick Atmosphere: ☽ up, but far from ☿: Observation of little value; owing to the situation of the Planet.

25	4	55,0	2	6	10,4	7	23,3	15,99	..	...	- - -	☉ 1 L.
	7	6,0	2	8	22,0	9	35,0					☉ 2 L.
	2	59,0	5	4	20,3	5	38,6	20,13	..	...	12½ N	☿ *Centrum.* 2h 54' 27",32 mean Time.
	-	-	8	54	34,0	56	16,0	34,0	1	2,0	59½ S	C *Arg. Nav.*
	-	-	8	57	58,3	59	35,0	58,0	1	2,0	55½ S	λ *Arg. Nav.*
	0	36,0	9	2	55,0	5	8,9	54,51	1	2,13	72½ S	α *Arg. Nav.*
	6	37,0	9	8	57,0	11	13,0	57,0	..	...	71½ S	ι *Arg. Nav.*
	15	6,5	9	17	6,5	19	3,0	6,36	1	1,6	39½ N	θ *Urs. Maj.*
	30	42,5	9	32	3,5	33	21,0	3,17	1	1,8	11½ N	ε *Leonis.*
	-	-	9	-	-	38	10,5	-	..	...	42½ N	Φ *Urs. Maj.*
	-	-	9	55	15,0	56	28,0	15.34	..	...	½ S	*Regulus.*
	0	55,0	0	2	36,5	4	14,5	56,45	..	...	30½ N	λ *Urs. Maj.*
	-	-	10	6	29 0	7	45 0	29,0	1	1,4	7½ N	γ *Leonis.*
	32	22,0	10	34	42,0	36	59,0	42.26	..	...	72½ S	*Rob. Carol.*
	45	3,0	10	47	19,0	49	27,5	19.0	2	2,42	44½ N	β *Urs. Maj.*
	46	18.0	10	48	56,0	51	36,0	56.0	3	2,30	48½ N	α *Urs. Maj.*
26	8	39.0	2	9	51.0	11	8.0	59,88	..	...	- - -	☉ 1 L.
	10	50 0	2	12	5,5	13	18.5					☉ 2 L.
	6	36,0	9	8	55,8	11	11,5	55,78	1	1.23	71½ S	ι *Arg. Nav.*
	15	5,0	9	17	5,2	19	1,5	5,09	1	1,23	39½ N	θ *Urs. Maj.*
	30	42.0	9	32	2,0	33	20,3	2,12	1	0,9	11½ N	ε *Leonis.*
	53	58,0	9	55	13,5	56	27.0	13,53	1	1,81	½ S	*Regulus.*
	0	54,4	10	2	35,5	4	13.5	35,5	..	...	30½ N	λ *Urs. Maj.*
	5	10,0	10	6	28.0	7	44,5	28,18	1	0,82	7½ N	γ *Leonis.*
27	12	23,3	2	13	39,4	14	53,5	45,08	..	...	- - -	☉ 1 L.
	14	55,0	2	15	51.0	17	4,0					☉ 2 L.
	12	39,0	5	13	59,4	15	19,0	0,16	..	...	12½ N	☿ *Centrum.* 2h 56' 16",86 mean Time.

Examined the Meridian adjustment and Line of Collimation: found both a very little out—adjusted the Instrument.

	15	4,0	9	17	4.0	19	0.5	3,99	1	1,16	39½ N	θ *Urs. Maj.*
	30	40.4	9	32	0,5	33	18,5	0,52	1	1,60	11½ N	ε *Leonis.*
	53	57,5	9	55	13,0	56	25,6	12,81	1	0,72	½ S	*Regulus.*
	0	53,0	10	2	34,5	4	12,4	34,43	1	1,07	30½ N	λ *Urs. Maj.*

In the YEAR M.DCCCXII.

DAY of the MONTH.	I. Wire.		MERIDIAN.			III. Wire.		Reduction of Wires.	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
	M	S	H	M	S	M	S	S				
APRIL 27	5	9,0	10	6	27,0	7	43,0	27,31	1	0,87	7¼ N	*γ Leonis.*
	45	0,0	10	47	14,2	49	25,6	14,47	..	...	44¾ N	*β Urs. Maj.*
	46	14,6	10	48	53,0	-	-	53,00	2	1,50	49¼ N	*ε Urs. Maj.*
	A. M. The Transit Clock stopt—the suspender of the weight being too short to admit of its going a full month—the string probably having been shortened at the time the Clock was cleaned: Set the Clock going again, and at nearly the same time as before.											
28	15	10,5	2	16	23,0	17	40,5	32,86	..	...	- - -	☉ 1 L.
	17	23,0	2	18	38,5	19	52,4		..	...	- - -	☉ 2 L.
	14	3,8	9	16	5,0	18	1,0	4,56	..	...	30¼ N	*β Urs. Maj.*
	59	54,5	10	1	36,5	3	13,8	36,15	..	...	30¼ N	*λ Urs. Maj.*
	4	10,0	10	5	25,0	6	44,0	28,06	..	...	7¼ N	*γ Leonis.*
	Hazy at the time these Observations were taken.											
29	18	59,0	2	20	14,5	21	28,0	20,46	..	...	- - -	☉ 1 L.
	21	11,0	2	22	26,6	23	39,4					☉ 2 L.
30	Cloudy.											
MAY 1	26	34,0	2	27	50,0	29	4,5	56,57	1	0,45	- - -	☉ 1 L.
	28	47,2	2	30	2,5	31	16,0				- - -	☉ 2 L.
	30	56,5	5	32	18,0	33	38,0	18,42	..	...	13¼ N	♀ *Centrum.* 2ʰ 59′ 47″,28 mean Time.
	8	42,5	6	10	2,5	11	19,5	2,66	..	...		♃ *Centrum.* 3ʰ 37′ 25″,34 mean Time.
	-	-	9	35	6,4	37	9,0	- -	..	...	42¼ N	☉ *Urs. Maj.*
	52	58,0	9	54	13,0	55	25,0	12,78	1	0,03	¼ S	*Regulus.*
	59	53,2	10	1	34,8	3	13,0	34,8	1	1,27	30¼ N	*λ Urs. Maj.*
	4	9,4	10	5	27,5	6	43,0	27,57	3	0,7	7¼ N	*γ Leonis.*
	-	-	10	12	58,3	14	6,0	- -	..	...	29¼ S	*μ Hydræ.*
	-	-	10	18	46,4	19	59,0	- -	..	...	3¼ S	*ρ Leonis.*
	31	20,0	10	33	41,0	35	58,1	- -	..	...	72¼ S	*Rob. Carol.*
	44	2,4	10	46	18,0	48	29,3	18,14	..	...	44¼ N	*β Urs. Maj.*
	45	14,5	10	47	51,2	50	28,3	54,23	..	...	49¼ N	*α Urs. Maj.*
	53	11,0	10	54	55,3	56	36,2	55,52	..	...	32¼ N	*ψ Urs. Maj.*
	58	39,4	10	59	58,0	1	14,4	58,15	..	...	8¼ N	*δ Leonis.*
2	30	23,3	2	31	38,6	32	52,5	45,26	..	...	- - -	☉ 1 L.
	32	34,7	2	33	50,5	35	4,0				- - -	☉ 2 L.
	35	43,6	5	37	5,5	38	24,8	5,43	..	...	13¼ N	♀ *Centrum.* 3ʰ 0′ 38″,14 mean Time.
	29	40,0	9	31	0,0	32	18,0	0,22	..	...	11¼ N	*ε Leonis.*
	32	59,0	9	35	4,5	37	8,0	4,5	1	1,46	42¼ N	☉ *Urs. Maj.*
	52	57,5	9	54	12,5	55	24,0	12,29	1	0,67	¼ N	*Regulus.*
	59	52,0	10	1	33,5	3	12,0	33,48	1	1,17	30¼ N	*λ Urs. Maj.*
	11	35,2	10	12	52,0	14	5,0	- -	1	1,15	29¼ S	*μ Hydræ.*
	17	31,0	10	18	45,0	19	58,0	45,0	1	1,4	3¼ S	*ρ Leonis.*
	31	19,0	10	33	04,0	35	56,0	40,0	1	1,0	72¼ S	*Rob. Carol.*
	44	0,5	10	46	16,0	48	27,0	16,09	..	...	44¼ N	*β Urs. Maj.*
	45	12,5	10	47	52,5	50	26,4	52,41	1	1,9	49¼ N	*α Urs. Maj.*
	53	9,0	10	54	51,0	56	55,0	54,07	1	1,5	32¼ N	*ψ Urs. Maj.*
	58	38,0	10	59	57,0	1	13,0	56,95	1	1,27	8¼ N	*δ Leonis.*
	2	42,0	11	4	9,0	5	24,0	- -	..	...	21 N	*υ Urs. Maj.*
	9	45,0	11	10	50,0	12	11,0	50,16	..	...	23¼ S	*ε Crateris.*
3	34	10,3	2	35	26,4	36	40,0	32,65	..	...	- - -	☉ 1 L.
	36	22,5	2	37	39,0	38	52,3				- - -	☉ 2 L.
	-	-	9	30	59,0	-	-	59,0	1	1,0	11¼ N	*ε Leonis.*
	-	-	9	35	3,0	37	6,9	3,0	1	1,6	42¼ N	☉ *Urs. Maj.*
	52	55,7	9	54	10,4	55	23,0	10,54	1	1,63	¼ S	*Regulus.*
	59	50,5	10	1	32,4	3	10,4	32,16	1	1,4	30¼ N	*λ Urs. Maj.*
	-	-	10	5	25,0	6	39,8	25,0	1	1,6	7¼ N	*γ Leonis.*
	11	34,0	10	12	50,0	14	4,0	50,17	1	1,4	29¼ S	*μ Hydræ.*
	17	30,0	10	18	44,4	19	55,5	44,24	1	1,37	3¼ S	*ρ Leonis.*

In the YEAR M.DCCCXII.

DAY of the MONTH.	I. Wire.	Meridian.		II. Wire.		Reduction off Wires.	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS and PLANETS.
	M S	H	M S	M	S	S				
MAY 3										
		IMMERSION of JUPITER's *third* Satellite.								
		Time by Clock (S.) 9h 28′ 38″. *Mean* Time 6h 47′ 39″,20.								
		Planet high, but rather hazy; the Belts, however, very distinct: Twilight: Observation otherwise good.								
	53 8,4	10	54 53,0	56	33,0	52,92	1	— 1,2	32¼ N	♃ *Urs. Maj.*
	58 57,0	10	59 55,8	1	11,0	55,63	1	1,4	8¼ N	δ *Leonis.*
	2 39,0	11	4 7,4	5	33,0	7,39	1	1,3	21 N	υ *Urs. Maj.*
	9 43,5	11	10 58,0	12	9,0	57,79	1	1,5	23¼ S	ε *Crateris.*
	30 3,0	11	31 54,4	33	42,5	54,55	..	. . .	35¼ N	χ *Urs. Maj.*
	- -	11	35 8,0	36	21,0	7,8	..	. . .	2¼ N	β *Leonis.*
	19h 45′ A. M. Examined the Line of Collimation and Meridian adjustment,—found the former a little out of adjustment.									
4	37 58,4	2	39 14,3	40	28,5	21,14	1	1,81	- - -	⊙ 1 L.
	40 11,8	2	41 27,0	42	41,4					⊙ 2 L.
	45 14,5	5	46 36,0	47	55,0	35,97	..	. . .	14¼ N	♀ *Centrum.* 3h 2′ 18″,05 mean Time.
	6 P. M. Adjusted the Line of Collimation, which was a very little out.									
	29 37,0	9	30 57,4	32	15,0	57,42	1	1,58	11¾ N	ε *Leonis.*
	- -	9	35 1,6	37	5,0	1,60	1	1,40	42¾ N	Φ *Urs. Maj.*
	52 54,9	9	54 8,5	-	-	8,66	1	1,88	¼ S	*Regulus.*
	59 49,0	10	1 31,0	3	8,8	30,68	1	1,48	35¾ N	λ *Urs. Maj.*
	4 5,3	10	5 23,2	6	38,5	23,27	1	1,73	7¾ N	γ *Leonis.*
	11 32,0	10	12 48,5	14	2,0	48,42	1	1,75	29¼ S	μ *Hydræ.*
	17 28,9	10	18 42,3	19	54,0	42,51	1	1,70	3¼ S	ρ *Leonis.*
	31 15,5	10	33 36,4	35	53,0	36,57	1	1,59	72¼ S	*Rob. Carol.*
	43 57,0	10	46 13,3	48	24,4	13,21	2	1,44	44¼ N	β *Urs. Maj.*
	53 7,5	10	54 51,5	56	32,0	51,69	1	1,23	32¼ N	♃ *Urs. Maj.*
	58 35,0	10	59 54,5	1	9,5	54,10	1	1,53	8¼ N	δ *Leonis.*
	2 38,0	11	4 5,5	5	31,0	5,69	1	1,70	21 N	υ *Urs. Maj.*
	9 42,0	11	10 56,0	12	7,5	56,04	1	1,75	23¼ S	ε *Crateris.*
	30 2,0	11	31 53,0	33	40,8	53,18	1	1,37	35¼ N	χ *Urs. Maj.*
	- -	11	35 15,3	36	29,5	- -	..	. . .	2¼ N	β *Leonis.*
5	41 47,4	2	43 4,0	44	18,0	10,17	1	1,77	- - -	⊙ 1 L.
	44 0,0	2	45 16,7	46	29,5					⊙ 2 L.
	- -	9	35 0,0	37	3,3	0,0	1	1,65	42¾ N	Φ *Urs. Maj.*
	52 52,0	9	54 7,0	55	19,8	7,12	1	1,75	¼ S	*Regulus.*
	59 48,0	10	1 29,5	3	7,0	29,23	1	1,43	30¼ N	λ *Urs. Maj.*
	- -	10	5 22,0	6	37,8	22,1	1	0,95	7¾ N	γ *Leonis.*
	11 30.0	10	12 47,0	13	59,6	47,0	1	1,97	29¼ S	μ *Hydræ.*
	17 26,5	10	18 40,5	19	52,8	40,74	1	2,07	3¼ S	ρ *Leonis.*
	31 14,0	10	33 34,6	35	51,0	34,48	1	1,77	72¼ S	*Rob. Carol.*
	45 8,0	10	47 48,7	50	23,0	48,53	3	1,29	49¼ N	α *Urs. Maj.*
	53 5,0	10	54 49,0	56	30,0	49,32	..	. . .	32¼ N	♃ *Urs. Maj.*
	58 33.3	10	59 52,0	1	8,5	52,0	1	1,74	8¼ N	δ *Leonis.*
	2 36,5	11	4 4,0	5	30,0	4,31	1	1,33	21 N	υ *Urs. Maj.*
	9 40,5	11	10 54,7	12	6,0	54,64	1	1,43	23¼ S	ε *Crateris.*
	30 0,5	11	31 52,0	33	39,0	51,85	1	1,43	35¼ N	χ *Urs. Maj.*
	- -	11	35 14,0	36	28,0	14,3	1	1,4	2¼ N	β *Leonis.*
6	45 37,0	2	46 53,4	48	7,5	0,24	1	1,38	- - -	⊙ 1 L.
	47 50,5	2	49 6,6	50	21,0					⊙ 2 L.
	54 41,0	5	56 3,4	57	22,6	3,19	..	. . .	13¾ N	♀ *Centrum.* 3h 3′ 55″,87 mean Time.
	- -	9	30 54,6	32	12,9	54,96	2	1,53	11¼ N	ε *Leonis.*
	- -	9	34 58,8	37	1,8	58,8	1	1,55	42¾ N	Φ *Urs. Maj.*
	52 50,0	9	54 5,8	55	18,2	5,62	1	1,93	¼ S	*Regulus.*
	59 46,0	10	1 27,0	3	5,0	26,98	..	. . .	30¼ N	λ *Urs. Maj.*
	4 2,0	10	5 20,5	6	36,0	20,47	1	1,65	7¾ N	γ *Leonis.*
	11 29,0	10	12 44,8	13	58,7	44,99	1	1,37	29¼ S	μ *Hydræ.*

In the YEAR M.DCCCXII.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
MAY 6	17	24,7	10	18	39,5	19	50,8	39,19	1	1,66	3¼ S	*ρ Leonis.*
	31	12,2	10	33	33,0	35	48,8	33,0	1	1,87	72½ S	*Rob. Carol.*
	43	54,0	10	46	9,8	48	23,5	9,74	2	1,73	44½ N	*β Urs. Maj.*
	53	3,3	10	54	47,2	56	29,0	47,2	1	1,5	32½ N	*⚓ Urs. Maj.*
	58	31,4	10	59	50,0	1	5,8	50,02	..	. . .	8½ N	*δ Leonis.*
	2	34,5	10	4	2,5	5	28,2	2,65	1	1,77	21 N	*υ Urs. Maj.*
	9	38,9	11	10	52,5	12	4,5	52,8	1	1,97	25½ S	*ε Crateris.*
	29	59,0	11	31	50,0	33	37,5	50,10	1	1,67	35½ N	*χ Urs. Maj.*
	-	-	11	35	12,4	36	26,3	12,65	1	1,65	2½ N	*β Leonis.*
7	49	27,0	2	50	44,0	51	58,0	50,42	1	1,82	- - -	⊙ 1 L.
	51	40,6	2	52	57,0	54	10,5					⊙ 2 L.
	29	31,4	9	30	51,8	32	10,0	51,97	1	2,1	11½ N	*ε Leonis.*
	52	48,8	9	51	4,0	55	16,4	3,99	1	1,6	½ S	*Regulus.*
	59	44,0	10	1	25,0	3	3,2	25,03	1	1,93	30½ N	*λ Urs. Maj.*
	4	0,0	10	5	18,4	6	34,0	18,42	1	2,03	7½ N	*γ Leonis.*
	11	27,3	10	12	43,0	13	57,0	43,24	1	1,73	29½ S	*μ Hydræ.*
	43	52,5	10	46	8,0	48	19,0	8, 9	1	1,6	44½ N	*β Urs. Maj.*
	53	1,3	10	54	46,0	56	27,0	46,14	1	1,73	32½ N	*⚓ Urs. Maj.*
	58	29,7	10	59	48,3	1	4,8	48,50	1	1,47	8½ N	*δ Leonis.*
	2	32,5	11	4	1,0	5	26,4	0,91	1	1,73	N	*υ Urs. Maj.*
	9	57,0	11	11	13,0	12	27,0	13,17	..	. . .	29½ S	*γ Crateris.*
	29	56,8	11	31	48,0	33	35,3	48,0	1	2,13	35½ N	*χ Urs. Maj.*
	-	-	11	35	10,5	36	24,0	10,55	1	2,1	2½ N	*β Leonis.*
	-	-	11	39	36,6	41	39,4	37,0	..	. . .	41½ N	*γ Urs. Maj.*
8	53	17,3	2	54	34,0	55	48,2					⊙ 1 L.
	55	30,5	2	56	47,5	58	1,8	40,79	1	2,23	- - -	⊙ 2 L.
	4	3,0	6	5	24,8	6	44,0	24,73	..	. . .	13½ N	♀ *Centrum.* 3h 5′ 27″,75 mean Time.
	52	46,6	9	54	2,5	55	13,4	2,32	1	1,95	½ S	*Regulus.*
	59	41,7	10	1	23,0	3	1,5	23,03	1	2,0	30½ N	*λ Urs. Maj.*
	3	58,0	10	5	16,0	6	31,4	16,09	1	2,3	7½ N	*γ Leonis.*
	11	24,8	10	12	40,8	13	54,6	40,92	1	2,37	29½ S	*μ Hydræ.*
	31	8,5	10	33	29,5	35	45,5	29,5	1	1,93	72½ S	*Rob. Carol.*
	45	3,5	10	47	42,0	50	17,0	42,0	3	2,11	49½ N	*α Urs. Maj.*
	52	59,0	10	54	44,0	56	25,0	44,07	1	2,1	32½ N	*⚓ Urs. Maj.*
	58	28,0	10	59	46,0	1	2,5	46,35	1	2,1	8½ N	*δ Leonis.*
	2	30,3	11	3	58,5	5	24,0	58,5	1	2,33	21 N	*υ Urs. Maj.*
	9	54,5	11	11	10,5	12	25,0	10,79	1	2,33	29½ S	*γ Crateris.*
	29	55,0	11	31	46,0	33	32,6	45,88	1	2,17	35½ N	*χ Urs. Maj.*
	-	-	11	35	8,8	36	22,0	8,7	1	1,85	2½ N	*β Leonis.*
	37	27,5	11	39	34,2	41	37,5	34,18	1	2,15	41½ N	*γ Urs. Maj.*
9	57	8,0	2	58	24,8	59	39,0	31,75	1	2,24	- - -	⊙ 1 L.
	59	22,4	3	0	38,0	1	52,9					⊙ 2 L.
	52	44,0	9	53	59,0	55	12,0	59,17	1	2,46	½ S	*Regulus.*
	59	40,0	10	1	21,5	3	59,0	21,28	1	1,9	30½ N	*λ Urs. Maj.*
	3	56,5	10	5	14,0	6	30,0	14,34	1	1,67	7½ N	*γ Leonis.*
	11	23,0	10	12	39,0	13	52,8	39,12	1	2,07	29½ S	*μ Hydræ.*
	31	6,8	10	33	27,6	35	43,5	27,62	1	1,87	72½ S	*Rob. Carol.*
	45	1,8	10	47	40,5	50	15,0	40,88	1	1,73	49½ N	*α Urs. Maj.*
	52	57,0	10	54	42,0	56	22,6	41,97	1	2,13	32½ N	*⚓ Urs. Maj.*
	58	26,0	10	59	44,2	1	0,5	44,45	1	1,93	8½ N	*δ Leonis.*
	2	29,0	11	3	56,5	5	22,0	56,59	1	1,83	21 N	*υ Urs. Maj.*
	9	52,3	11	11	9,0	12	23,4	9,10	1	1,77	29½ S	*γ Crateris.*
	29	53,5	11	31	44,0	33	30,6	41,05	1	1,83	35½ N	*χ Urs. Maj.*
	-	-	11	35	6,8	36	20,0	6,7	1	2,0	2½ N	*β Leonis.*
	37	26,0	11	39	32,4	41	35,5	32,71	1	1,77	41½ N	*γ Urs. Maj.*
	52	26,5	11	54	19,6	55	9,2	19,76	..	. . .	62½ S	*δ Centauri.*
	58	37,7	12	0	54,4	3	6,0	54,35	..	. . .	70½ S	*δ Crucis.*
10	0	59,0	3	2	16,5	3	30,3	22,64	..	. . .	- - -	⊙ 1 L.
	3	12,0	3	4	29,6	5	43,0					⊙ 2 L.
	59	37,6	10	1	19,8	2	57,0	19,28	1	2,03	30½ N	*λ Urs. Maj.*
	3	54,0	10	5	12,0	6	28,0	12,22	1	2,17	7½ N	*γ Leonis.*
	-	-	10	12	37,0	13	50,5	- -	1	2,15	29½ S	*μ Hydræ.* Cloudy.

In the YEAR M.DCCCXII.

DAY OF THE MONTH.	I. Wire.	MERIDIAN.	II. Wire.	Reduction of Wires.	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
	M S	H M S	M S	S				
MAY 11	17 56,0	6 19 17,0	20 36,0	17,18	..	—	13½ N	♀ *Centrum.* 3h 7′ 31″,90 mean Time.
	52 38,8	9 53 54,0	55 7,0	54, 2	1	0,87	½ S	*Regulus.*
	59 34,5	10 1 16,4	2 54,0	16,66	1	3,17	30½ N	λ *Urs. Maj.*
	3 50,6	10 5 9,2	6 24,0	9,2	..	...	7½ N	γ *Leonis.*
	11 18,0	10 12 34,0	13 47,7	34,09	1	2,9	20½ S	μ *Hydræ.*
	43 43,0	10 45 59,3	48 10,0	59,11	..	...	44½ N	β *Urs. Maj.*
	52 52,4	10 54 37,0	56 17,6	37,07	2	2,03	39½ N	↓ *Urs. Maj.*
	58 21,0	10 59 39,0	1 54,7	39,15	2	2,05	8½ N	δ *Leonis.*
	2 23,3	11 3 51,0	5 17,0	51,26	2	2,06	21 N	υ *Urs. Maj.*
	9 48,0	11 11 4,0	- -	- -	..	...	29½ S	γ *Crateris.*
	33 45,0	11 35 1,5	36 15,0	1.43	2	2,03	2½ N	β *Leonis.*
	37 20,0	11 39 27,5	41 30.0	27,38	2	2,06	41½ N	γ *Urs. Maj.*
	52 21,0	11 54 15,0	56 4,0	14,76	2	2,50	62½ S	β *Centauri.*
	58 32,5	0 0 49,0	3 1,5	49,22	2	2,56	70½ S	δ *Crucis.*
12	8 43,0	3 9 59,0	11 14,6	6,44	..	...	- - -	☉ 1 L.
	10 56,5	3 12 13,0	13 27,3					☉ 2 L.
	22 30,4	6 23 51,8	25 11.0	51,88	..	...	12½ N	♀ *Centrum.* 3h 8′ 18″,34 mean Time.
	59 32,0	10 1 14,6	2 52.0	13,73	1	2,45	30½ N	λ *Urs. Maj.*
	3 48,3	10 5 7,0	6 22,3	6,87	1	2,07	7½ N	γ *Leonis.*
	11 15,4	10 12 32,6	13 45,5	31,89	1	2,27	20½ S	μ *Hydræ.*
	43 41,4	10 45 57,6	48 8.0	57,36	1	1,77	44½ N	β *Urs. Maj.*
	52 50,5	10 54 35,0	56 15,4	35,04	1	2,03	39½ N	↓ *Urs. Maj.*
	58 18,6	10 59 37,7	0 53,4	37,57	..	...	8½ N	δ *Leonis.*
	9 45,0	11 11 2,4	- -	2,4	1	2,3	29½ S	γ *Crateris.*
	33 43,3	11 34 59,0	36 12,5	59,13	1	2,23	2½ N	β *Leonis.*
	37 18,0	11 39 25,5	41 27,6	25,28	1	2,13	42½ N	γ *Urs. Maj.*
13	12 35,3	3 13 52,4	15 7,4	59,58	1	2,16	- - -	☉ 1 L.
	14 50,0	3 16 6,0	17 21,5					☉ 2 L.
	17 57,5	6 19 19,0	20 36,0	19,0	..	...	10½ N	♃ *Centrum.* 3h 59′ 52″,48 mean Time.
	27 3,3	6 28 24,7	29 44,5	24,93	..	...	12½ N	♀ *Centrum.* 3h 8′ 5o″,99 mean Time.
	52 33,0	9 53 49,0	- -	49,0	2	2,56	½ S	*Regulus.*
	59 31,0	10 1 12,3	2 50,0	12,13	1	1,6	30½ N	λ *Urs. Maj.*
	3 46,0	10 5 4,6	6 20,4	4,62	1	2,2	7½ N	γ *Leonis.*
	17 10,3	10 10 23,0	19 35,0	23,46	7	2,26	5½ S	ρ *Leonis.*
	30 58,0	10 33 17,4	35 33,0	17,70	2	2,56	72½ S	*Rob. Carol.*
	52 48,0	10 54 32,0	56 13,0	32,32	1	2,03	39½ N	↓ *Urs. Maj.*
	2 19,0	11 3 47,0	5 12,3	47,01	2	2,12	21 N	υ *Urs. Maj.*
	9 43,0	11 10 59,4	12 13,0	59,37	1	2,5	29½ S	γ *Crateris.*
	29 43,0	11 31 34,0	- -	34,0	4	2,51	35½ N	χ *Urs. Maj.*
	33 41,0	11 34 57,0	36 10.5	57,05	1	2,1	2½ N	β *Leonis.*
14	16 28,4	3 17 46,2	19 2,0	53,59	1	2,19	- - -	☉ 1 L.
	18 43,5	3 20 1,0	21 15,0					☉ 2 L.
	18 47,0	6 20 7,3	21 24,0	7,12	..	...	10½ N	♃ *Centrum.* 3h 56′ 46″,53 mean Time.
	30 57,4	6 32 16,5	33 33,0	16,57	..	...	6½ N.	☽ 1 L. 3h 8′ 53,97 mean Time.
	- - -	6 - -	34 15,0	- -	..	...	13½ N	♀ *Centrum.* 3h 9′ 58″,19 mean Time.
	52 32,5	9 53 48,0	55 0,4	47,85	..	...	½ S	*Regulus.*
	59 28,4	10 1 10,0	2 47.7	9,66	..	...	30½ N	λ *Urs. Maj.*
	3 44,0	10 5 2,0	6 18.0	2,22	1	2,35	7½ N	γ *Leonis.*
	11 11,0	10 12 27,0	13 41.0	27,17	1	2,3	20½ S	μ *Hydræ.*
	17 7,6	10 18 21,0	19 35.3	21,39	1	2,13	3½ S	
	44 48,6	10 47 28,0	50 2,0	28,33	..	...	40½ N	α *Urs. Maj.*
	52 45,4	10 54 30,0	56 11,0	30,17	1	2,2	39½ N	↓ *Urs. Maj.*
	58 14,0	10 59 32,5	0 48,3	32,55	1	2,0	8½ N	δ *Leonis.*
	2 16,3	11 3 44,7	5 10,0	44,61	1	2,43	21 N	υ *Urs. Maj.*
	9 41,0	11 10 57,0	12 11,3	57,24	1	2,03	29½ S	γ *Crateris.*
	29 40,5	11 31 32,4	33 20,0	32,52	1	2,03	35½ N	χ *Urs. Maj.*
	- - -	11 34 55,0	36 8,3	54,9	1	2,1	2½ N	β *Leonis.*
	52 15,0	11 54 8,3	55 57,4	8,26	3	2,45	62½ S	β *Centauri.*
	58 20,0	12 0 42,2	2 55,3	42,75	..	...	70½ S	δ *Crucis.*
	9 6,5	12 11 43,5	14 14,0	43,27	..	...	75 S	α *Crucis.*
15	20 24,0	3 21 40,0	22 56,5	48,08	1	2,16	- - -	☉ 1 L.
	22 37,0	3 23 55,0	25 10,4					☉ 2 L.
	36 4,0	6 37 26,0	38 44,8	25,81	..	...	13½ N	♀ *Centrum.* 3h 10′ 8″,48 mean Time.
	39 5,0	7 30 24,4	31 41,0	24,44	..	...	5½ N	☽ 1 L. 4h 2′ 58″,53 mean Time.

In the YEAR M.DCCCXII.

DAY of the MONTH.	I. Wire.	Meridian.	III. Wire.	Reduction of Wires.	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters of the* STARS and PLANETS.
	M S	H M S	M S	S				
May 15	- -	9 53 46,0	54 58,8	46,0	1	2,43	3 S	*Regulus.*
	- -	10 1 7,0	2 45,2	7,0	..	- - -	30½ N	*λ Urs. Maj.*
	2 42,0	10 5 0,0	6 15,0	59,92	1	2,33	7½ N	*γ Leonis.*
	11 9,3	10 12 25,0	13 38,4	25,10	1	2,1	29½ S	*μ Hydræ.*
	17 4,4	10 18 19,0	19 31,0	19,01	1	2,83	3½ S	*ρ Leonis.*
	34 30,0	10 35 46,4	37 0,0	46,37	..	- - -	28½ S	*υ Hydræ.*
	14 46,0	10 47 26,0	50 1,0	26,18	1	2,2	49½ N	*α Urs. Maj.*
	52 43,3	10 54 27,4	56 9,4	27,76	1	2,1	32¾ N	*ψ Urs. Maj.*
	38 12,0	10 59 30,7	0 47,0	30,83	..	- - -	8½ N	*δ Leonis.*
	2 14,3	11 3 43,0	5 8,0	42,76	1	1,9	21 N	*υ Urs. Maj.*
	39 38,0	11 31 30,5	33 17,4	30,68	1	2,33	35¾ N	*χ Urs. Maj.*
	- -	11 34 52,5	36 6,0	52,56	1	2,4	2½ N	*β Leonis.*
	37 11,5	11 39 18,4	41 21,0	18,46	1	2,06	41½ N	*γ Urs. Maj.*
	58 21,0	12 0 40,6	2 53,5	40,85	1	1,9	70½ S	*δ Crucis.*
	9 5,0	12 11 42,0	14 12,0	41,65	1	1,66	75¾ S	*α Crucis.*
16	24 17,0	3 25 35,5	26 51,2	42,81	..	- - -	- - -	☉ 1 L.
	26 32,2	3 27 50,0	29 5,4					☉ 2 L.
	20 25,0	6 21 45,0	23 2,0	44,99	..	- - -	10¼ N	*ψ Centaur.* 2h 50′ 36″,67 mean Time.
	40 32,0	6 41 53,0	43 13,4	53,0	..	- - -	13¾ N	♀ *Centrum.* 3h 10′ 44″,40 mean Time.
	24 27,0	8 25 44,5	27 0,4	44,80	..	- - -	4½ N	☽ 1 L. 4h 54′ 16,″35 mean Time.
	52 28,3	9 53 44,0	54 56,0	43,70	1	1,67	½ S	*Regulus.*
	59 22,3	10 1 5,0	2 43,0	5,0	1	1,97	30½ N	*λ Urs. Maj.*
	3 40,0	10 4 58,4	6 14,0	58,42	1	1,53	7½ N	*γ Leonis.*
	11 7,0	10 12 28,0	13 36,5	23,04	1	1,93	29½ S	*μ Hydræ.*
	17 2,3	10 18 17,0	19 29,0	16,99	1	2,03	3½ S	*ρ Leonis.*
	34 28,0	10 35 44,3	36 58,0	44,33	1	2,04	28½ S	*υ Hydræ.*
	52 41,0	10 51 25,8	56 7,0	25,97	1	2,1	32¾ N	*ψ Urs. Maj.*
	58 9,8	10 59 28,0	0 44,2	28,2	1	2,57	8½ N	*δ Leonis.*
	2 12,0	11 3 40,3	5 6,0	40,34	1	2,33	21 N	*υ Urs. Maj.*
	9 37,0	11 - -	12 7,0	- - -	..	- - -	29½ S	*γ Crateris.*
	29 36,0	11 31 23,0	33 15,3	27,80	1	2,2	35¼ N	*χ Urs. Maj.*
	- -	11 34 51,0	36 4,0	50,8	1	1,75	2½ N	*β Leonis.*
	37 9,5	11 39 16,4	41 19,0	16,46	1	2,0	41½ N	*γ Urs. Maj.*
	52 12,0	11 54 4,0	55 53,0	4,26	..	- - -	62½ S	*δ Centauri.*
	58 22,7	12 0 38,0	2 51,5	- -	1	1,93	70½ S	*δ Crucis.*
	- -	12 6 42,0	9 1,0	- -	..	- - -	72½ S	*ε Crucis.*
	9 3,0	12 11 39,8	14 10,0	39,55	1	2,07	75½ S	*α Crucis.*
17	28 13,0	3 29 31,2	30 47,0	38,82	1	1,69	- - -	☉ 1 L.
	30 29,8	3 31 46,3	33 2,0					☉ 2 L.
18	32 10,0	3 33 28,0	34 43,3	35,53	1	1,39	- - -	☉ 1 L.
	34 25,0	3 35 42,8	36 58,4					☉ 2 L.
	Wound up the Clock: Arc of Vibration 1°: 42′.							
	49 16,5	6 50 38,0	51 57,0	- -	..	- - -	13¼ N	♀ *Centrum.* 8h 11′ 36″,4 mean Time.
	Examined the Line of Collimation and Meridian adjustment,—and found both right.							
	6 40,0	10 7 56,2	9 10,0	56,29	..	- - -	21½ S	☽ 1 L. 6h 28′ 22″,21 mean Time.
	- -	10 12 13,5	13 27,0	- -	..	- - -	29½ S	*μ Hydræ.*
	16 58,5	10 18 8,5	19 19,4	8,14	..	- - -	3½ S	*ρ Leonis.*
	34 19,3	10 35 55,0	36 48,4	55,11	..	- - -	28½ S	*υ Hydræ.*
	43 23,8	10 45 39,0	47 49,8	39,23	..	- - -	44½ N	*β Urs. Maj.*
	44 35,5	10 47 14,5	50,0	- -	..	- - -	49½ N	*α Urs. Maj.*
	52 32,0	0 54 16,3	57,0	16,42	..	- - -	32¾ N	*ψ Urs. Maj.*
	58 1,0	10 59 19,0	0 35,0	19,23	..	- - -	8½ N	*δ Leonis.*
	2 3,0	11 3 31,4	4 56,3	31,21	..	- - -	21 N	*υ Urs. Maj.*
	- -	11 10 44,0	11 58,8	- -	..	- - -	29½ S	*γ Crateris.*
	29 27,3	11 31 18,5	33 6,0	18,53	..	- - -	35¼ N	*χ Urs. Maj.*
	37 0,0	11 39 7,0	41 9,5	7,01	..	- - -	41½ N	*γ Urs. Maj.*

In the YEAR M.DCCCXII.

DAY OF THE MONTH.	I. Wire. M	I. Wire. S	MERIDIAN. H	MERIDIAN. M	MERIDIAN. S	III. Wire. M	III. Wire. S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters of the* STARS AND PLANETS.
MAY 18	52	1,0	11	53	54,0	55	44,2	51,31	..	...	62¼ S	δ *Centauri.*
	58	12,5	12	0	29,3	2	42,0	29,50	..	...	70½ S	δ *Crucis.*
	4	9,0	12	6	33,0	8	51,5	33,02	..	...	72½ S	ε *Crucis.*
	-	-	12	15	23,0	16	36,4	- -	..	...	28½ S	δ *Corvi.*
	:	-	12	17	38,0	18	51,0	- -	..	...	28½ S	η *Corvi.*
19	The Spring intended to keep the Clock going while winding up, does not appear to be in perfect order—the Clock in consequence is liable to stop at times while winding—as seems to have been the case yesterday.											
	36	3,0	3	37	20,0	38	35,3	27,37	..	...	- - -	⊙ 1 L.
	38	16,4	3	39	34,0	40	50,0					⊙ 2 L.
	-	-	6	24	9,0	25	26,3	- -	..	...	10¼ N	♅ *Centrum.* 2ʰ 41′ 22″,24 mean Time.
	53	39,3	6	55	1,0	56	19,4	- -	..	...	12¾ N	♀ *Centrum.* 3ʰ 12′ 8″,73 mean Time.
	-	-	9	53	33,0	54	45,0	- -	..	...	¼ N	*Regulus.*
	3	29,0	10	4	48,3	-	-	- -	..	—	7½ N	γ *Leonis.*
	-	-	10	12	12,5	13	26,0	- -	1	0,9	29¼ S	μ *Hydræ.*
	34	18,3	10	35	34,0	36	47,2	34,03	1	1,06	28¼ S	υ *Hydræ.*
	43	24,3	10	45	38,0	47	48,5	37,67	..	...	44¾ N	β *Urs. Maj.*
	44	34,0	10	47	14,5	49	48,5	14,31	1	1,0	49½ N	α *Urs. Maj.*
	54	34,5	10	55	50,0	57	2,5	49,83	..	...	61½ N	☽ 1 L. 7ʰ 12′ 18″,84 mean Time.
	-	-	10	59	18,0	0	34,0	18,05	1	1,0	8½ N	δ *Leonis.*
	-	-	11	3	30,0	4	55,7	- -	1	1,0	21 N	υ *Urs. Maj.*
	9	27,0	11	10	43,4	11	56,5	43,24	1	1,05	29¼ S	γ *Crateris.*
	29	26,3	11	31	18,0	33	5,3	17,88	1	0,7	35½ N	χ *Urs. Maj.*
	37	0,0	11	39	6,0	41	9,0	6,38	1	0,5	41¼ N	γ *Urs. Maj.*
	52	1,0	11	53	54,0	55	43,0	54,01	1	0,4	62½ S	δ *Centauri.*
	58	11,0	12	0	28,8	2	41,0	28,62	..	...	70½ S	δ *Crucis.*
	8	53,5	12	11	29,0	14	0,0	29,27	..	...	75¼ S	α *Crucis.*
20	39	59,5	3	41	17,2	42	33,0	24,87	1	1,9	- - -	⊙ 1 L.
	42	14,5	3	43	32,5	44	47,0					⊙ 2 L.
	52	15,0	9	53	31,0	54	44,0	30,97	1	1,5	¾ S	*Regulus.*
	3	28,0	10	4	46,8	6	2,0	46,62	1	1,7	7½ N	γ *Leonis.*
	34	16,0	10	35	32,0	36	46,0	32,18	1	1,83	28¼ S	υ *Hydræ.*
	44	32,3	10	47	12,0	49	47,0	12,26	1	1,9	49¼ N	α *Urs. Maj.*
	57	58,0	10	59	16,3	0	32,2	16,42	1	1,75	8¼ N	δ *Leonis.*
	9	25,4	11	10	41,4	11	55,0	41,47	1	1,7	29¾ S	γ *Crateris.*
	33	23,0	11	34	39,0	35	52,0	38,93	..	...	2¼ N	β *Leonis.*
	41	10,2	11	42	25,0	43	37,0	24,98	..	...	9¼ S	☽ 1 L. 7ʰ 54′ 52″,71 mean Time.
	51	59,0	11	53	52,0	55	41,0	52,01	1	2,0	62¼ S	δ *Centauri.*
	8	51,0	12	11	27,0	13	58,0	27,15	..	...	75½ S	α *Crucis.*
	18	24,0	12	19	43,3	21	0,0	43,36	..	...	35¼ S	β *Corvi.*
21	-	-	3	47	30,3	48	46,0	- -	..	...	- - -	⊙ 2 L.
	2	17,0	7	3	37,5	4	56,4	37,28	..	...	12¾ N	♀ *Centrum.* 3ʰ 12′ 56,50 mean Time.
	34	15,0	10	35	30,3	36	44,0	30,58	1	1,57	28¼ S	υ *Hydræ.*
	44	30,3	10	47	10,4	49	45,0	10,46	1	1,87	49¾ N	α *Urs. Maj.*
	57	56,0	10	59	15,0	0	30,5	14,85	1	1,66	8¼ N	δ *Leonis.*
	9	23,0	11	10	40,0	11	54,0	39,94	1	1,6	29¼ S	γ *Crateris.*
	33	21,0	11	34	37,0	35	50,3	37,01	1	1,9	2¼ N	β *Leonis.*
	51	57,0	11	53	50,0	55	39,0	50,01	1	2,0	62¼ S	δ *Centauri.*
	8	49,3	12	11	25,4	13	56,0	25,42	1	1,77	75¼ S	α *Crucis.*
	18	23,0	12	19	42,0	20	58,5	42,08	1	1,27	35¼ S	β *Corvi.*
	27	13,0	12	28	27,5	29	39,5	27,55	..	...	13¼ S	☽ 1 L. 8ʰ 36′ 53″,01 mean Time.
22	47	55,0	3	49	13,4	50	29,4	21,31	2	2,18	- - -	⊙ 1 L.
	50	10,5	3	51	29,0	52	45,0					⊙ 2 L.
	25	21,0	6	26	41,0	27	59,0	41,43	..	...	10¼ N	♅ *Centrum.* 2ʰ 32′ 11″,90 mean Time.
	6	31,0	7	7	52,6	9	11,0	52,38	..	...	12¾ N	♀ *Centrum.* 3ʰ 13′ 16′,17 mean Time.
	34	13,0	10	35	29,0	36	42,4	29,03	1	1,63	28¼ S	υ *Hydræ.*
	43	16,4	10	45	32,3	47	43,5	32,34	3	1,77	44¼ N	β *Urs. Maj.*
	52	25,4	10	54	10,0	55	51,5	10,3	4	2,05	32½ N	♃ *Urs. Maj.*
	1	49,0	11	3	15,0	4	38,0	14,94	..	...	21 N	υ *Urs. Maj.*
	9	21,0	11	10	37,6	11	52,4	37,82	1	2,0	29¼ S	γ *Crateris.*
	-	-	11	39	1,5	41	3,5	1,5	..	...	41½ N	γ *Urs. Maj.*

In the YEAR M.DCCCXII.

DAY OF THE MONTH.	I. Wire. M S	MERIDIAN. H M S	III. Wire. M S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names* or *Characters* of the STARS AND PLANETS.
MAY 22	52 17,3	11 54 36,0	56 52,3	36,11	..	. . .	34½ S	ε *Corvi.*
	58 7,5	12 0 23,0	2 36,5	- -	..	. . .	70¼ S	δ *Crucis.*
	8 47,6	12 11 23,8	13 53,5	23,57	1	1,93	75¾ S	α *Crucis.*
	16 16,0	12 17 32,6	18 45,3	32,03	..	. . .	28¼ S	η *Corvi.*
	24 31,0	12 26 21,4	28 7,5	21,30	..	. . .	60¼ S	γ *Centauri.*
	38 39,5	12 40 52,0	43 1,5	52,42	..	. . .	44 N	
23	51 54,0	3 53 12,3	54 28,0	19,98	1	2,23	- - -	⊙ 1 L.
	54 9,5	3 55 28,0	56 42,5					⊙ 2 L.
	After the Transit of the ⊙ put the Clock on 5 minutes.							
	15 44,0	7 17 5,0	18 24,0	5,17	..	. . .	12½ N	♀ *Centrum.* 3ʰ 13′ 33″,83 mean Time.
	- -	10 37 48,5	40 35,4	- -	..	. . .	61½ S	μ *Navis.*
	34 19,0	11 36 10,0	37 58,0	10,23	..	. . .	35¼ N	κ *Urs. Maj.*
	- -	11 43 59,0	46 1,0	59,0	..	. . .	41½ N	γ *Urs. Maj.*
	9 10,0	12 10 22,3	11 32,5	22,42	..	. . .	12¼ S	η *Virginis.*
	19 0,0	12 20 15,0	21 27,0	14,93	..	. . .	28½ S	δ *Corvi.*
	23 19,0	12 24 38,3	25 55,0	38,36	..	. . .	35¼ S	β *Corvi.*
	31 0,0	12 32 14,0	33 25,0	13,9	..	. . .	13¼ S	γ *Virginis.*
24	0 53,0	4 2 12,0	3 28,0	19,85	..	. . .	- - -	⊙ 1 L.
	3 9,5	4 4 27,5	5 43,5					⊙ 2 L.
	18 13,4	10 50 28,4	52 40,0	28,76	..	. . .	44½ N	β *Urs. Maj.*
	3 9,3	11 4 26,0	5 39,3	25,83	..	. . .	3¼ N	θ *Leonis.*
	39 45,3	11 40 58,5	42 9,0	- -	..	. . .	10¼ S	β *Virginis.*
	57 29,0	11 58 48,5	0 6,0	48,71	..	. . .	36¼ S	α *Corvi.*
	3 50,0	12 6 8,5	8 22,0	8,49	..	. . .	45 N	δ *Urs. Maj.*
	18 57,0	12 20 13,3	21 27,0	13,30	1	1,6	28¾ S	δ *Corvi.*
	23 17,0	12 24 36,4	25 53,0	36,41	1	1,99	35¼ S	β *Corvi.*
	30 59,0	12 32 12,0	33 23,4	12,25	1	1,53	13¼ S	γ *Virginis.*
	45 43,0	12 47 17,0	48 49,0	17,2	..	. . .	26½ N	δ *Virginis.*
	7 29,6	13 8 48,5	10 5,5	48,73	..	. . .	35¼ S	γ *Hydræ.*
	14 8,8	13 15 22,5*	16 35,4	- -	..	. . .	23¼ S	*Spicæ Virginis*
	26 9,4	13 28 9,0	30 5,5	9,24	..	. . .	65¼ S	δ *Centauri.*
	38 18,0	13 40 12,4*	42 3,5	- -	..	. . .	37½ N	μ *Urs. Maj.*
	- -	13 50 46,6	53 6,7	- -	..	. . .	72¼ S	β *Centauri.*
	54 15,5	13 55 44,7	57 12,0	- -	..	. . .	48¼ S	θ *Centauri.*
	5 52,0	14 7 10,5*	8 25,7	10,38	..	. . .	7¼ N	*Arcturus.*
	Those Observations with an Asterisk were taken by Reflection—by these the Axis appears to be as nearly level as possible.							
25	- -	4 6 10,4	7 28,6	20,47	1	1,38	- - -	⊙ 1 L.
	7 9,5	4 8 28,0	9 43,6					⊙ 2 L.
	49 24,0	10 52 3,5	54 38,4	3,78	..	. . .	49¼ N	α *Urs. Maj.*
	2 49,0	11 4 7,4	5 24,0	7,68	..	. . .	8½ N	δ *Leonis.*
	38 14,0	11 39 30,0	40 43,0	29,98	..	. . .	2¼ N	β *Leonis.*
	11 49,3	11 Cloudy.	45 58,0	- -	..	. . .	41½ N	γ *Urs. Maj.*
	56 50,0	11 58 43,3	0 33,0	43,41	..	. . .	62¼ S	δ *Centauri.*
	43 32,0	12 45 46,0	47 56,0	46,21	..	. . .	44 N	ε *Urs. Maj.*
	51 36,0	12 52 47,0	54 4,0	- -	..	. . .	1¼ S	ε *Virginis.*
	59 3,3	13 0 15,5	1 27,5	16,08	..	. . .	17½ S	δ *Virginis.*
26	8 53,4	4 10 12,0	11 28,5	20,40	1	2,47	- - -	⊙ 1 L.
	11 10,5	4 12 28,0	13 44,4					⊙ 2 L.
	33 47,3	6 35 6,0	36 22,4	6,28	..	. . .	10½ N*	♃ *Centrum.* 2ʰ 19′ 59″,65 mean Time.
	28 5,0	7 29 25,8	30 44,0	25,73	..	. . .	12¼ N	♀ *Centrum.* 3ʰ 14′ 10″,34 mean Time.
	- -	10 52 1.4	54 36,0	- -	1	2,25	49¼ N	α *Urs. Maj.*
	2 47,0	11 4 5,8	5 22,0	5,88	1	1,87	8¼ N	δ *Leonis.*
	38 12,3	11 39 28,5	40 42,0	28,5	1	1,5	2½ N	β *Leonis.*
	41 47,0	11 43 53,4	45 56,5	53,71	1	1,75	41¼ N	γ *Urs. Maj.*
	56 48,0	11 58 41,0	0 30,5	41,14	..	. . .	62½ S	δ *Centauri.*
	9 5,0	12 10 18,0	11 29,4	- -	..	. . .	12¼ S	η *Virginis.*

In the YEAR M.DCCCXII.

DAY OF THE MONTH.		J. Wire. M	S	MERIDIAN. H	M	S	HI. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	Names or Characters of the STARS AND PLANETS.
MAY	27	12	54,2	4	14	12,4	15	29,0	20,89	..	...	° ′ ″	☉ 1 L.
		15	10,6	4	16	28,5	17	45,0		..	...		☉ 2 L.
		-	-	10	52	0,0	54	54,4	59,95	1	1,6	49½ N	α *Urs. Maj.*
		3	4,0	11	4	20,0	5	24,0	20,18	..	...	3½ N	θ *Leonis.*
		38	10,4	11	39	27,0	40	40,0	26,78	1	1,8	2½ N	β *Leonis.*
		57	23,8	11	58	44,0	0	0,5	43,79	..	...	36½ S	α *Corvi.*
		3	43,0	12	6	2,5	8	16,0	2,24	..	...	45 N	ξ *Urs. Maj.*
		18	52,0	12	20	8,5	21	21,5	8,30	..	...	23½ S	δ *Corvi.*
		23	11,5	12	24	31,0	25	47,6	30,98	..	...	35½ S	β *Corvi.*
		30	54,0	12	32	7,3	33	18,4	7,4	..	...	13½ S	γ *Virginis.*
		43	28,6	12	45	42,0	47	52,8	42,29	..	...	44 N	ε *Urs. Maj.*
		58	59,0	13	0	12,5	1	23,9	12,45	..	...	17½ S	ζ *Virginis.*
	28	16	55,0	4	18	14,5	19	31,0	22,54	1	1,65	- - -	☉ 1 L.
		19	11,6	4	20	30,5	21	47,0		..	...		☉ 2 L.
		2	42,0	11	4	1,5	5	18,0	1,48	..	...	8½ N	δ *Leonis.*
		8	37,5	11	9	53,0	11	6,3	53,08	..	...	27 S	δ *Crateris.*
		38	8,0	11	39	23,0	40	38,5	24,85	..	...	2½ N	β *Leonis.*
		41	43,0	11	43	49,5	45	52,6	49,78	..	...	41½ N	γ *Urs. Maj.*
		59	6,4	12	0	25,4	1	41,3	25,33	..	...	34½ S	ε *Corvi.*
		4	49,7	12	6	5,8	7	20,0	6,05	..	...	29½ S	γ *Corvi.*
		23	10,0	12	24	29,4	25	46,1	29,41	1	1,71	55½ S	β *Corvi.*
		43	25,3	12	45	40,0	47	50,0	40,4	..	...	44 N	ξ *Urs. Maj.*
		51	31,0	12	52	46,3	53	58,0	46,08	..	...	1 S	ε *Virginis.*
		58	57,0	13	0	10,6	1	21,5	10,60	..	...	17½ S	θ *Virginis.*
		7	22,3	13	8	40,7	9	56,8	40,83	..	...	35½ S	γ *Hydræ.*
		14	1,0	13	15	15,0	16	27,3	15,24	..	...	23½ S	*Spicæ Virginis.*
	29	20	57,0	4	22	16,3	23	33,0	24,4	1	1,94	- - -	☉ 1 L.
		23	13,0	4	24	32,5	25	49,0					☉ 2 L.
		2	41,0	11	4	0,0	5	16,2	0,3	1	1,43	8½ N	δ *Leonis.*
		8	36,0	11	9	51,6	11	4,8	51,7	1	1,5	27 S	δ *Crateris.*
		14	8,8	11	15	24,7	16	39,0	24,94	..	...	29½ S	γ *Crateris.*
		38	7,0	11	39	23,5	40	36,5	23,31	1	1,5	2½ N	β *Leonis.*
		41	41,5	11	43	48,0	45	50,4	48,11	1	1,73	41½ N	γ *Urs. Maj.*
		2	53,2	12	5	9,5	7	22,0	9,52	..	...	70½ S	δ *Crucis.*
		13	34,0	12	16	11,0	18	42,3	10,97	..	...	75 S	α *Crucis.*
		22	48,5	12	26	4,0	29	13,6	- - -	..	...	81 S	α *Musc. Indic.*
		-	-	12	31	8,0	32	54,0	8,25	..	...	61 S	γ *Centauri.*
		34	25,5	12	36	46,0	39	1,5	46,0	..	...	71½ S	β *Crucis.*
		43	24,0	12	45	39,0	47	48,0	38,71	1	1,47	44 N	ε *Urs. Maj.*
		58	56,0	13	0	9,0	1	19,6	8,78	1	1,5	17½ S	θ *Virginis.*
		7	21,0	13	8	39,0	9	55,0	39,21	1	1,6	35½ S	γ *Hydræ.*
		13	59,0	13	15	14,0	16	25,8	13,85	1	1,5	23½ S	α *Virginis.*
	30	25	0,0	4	26	19,3	27	35,0	27,12	1	1,52	- - -	☉ 1 L.
		27	16,4	4	28	35,0	29	51,4					☉ 2 L.
		-	-	11	3	58,5	5	14,5	58,5	..	...	3½ N	θ *Leonis.*
		8	54,4	11	9	50,0	11	3,0	50,04	1	1,8	27 S	δ *Crateris.*
		14	6,8	11	15	22,7	16	37,5	23,09	1	1,83	29½ S	γ *Crateris.*
		38	4,6	11	39	21,0	40	34,0	20,83	..	...	2½ N	β *Leonis.*
		41	40,0	11	43	46,3	45	48,6	46,43	1	1,67	41 N	γ *Urs. Maj.*
		57	17,6	11	58	37,7	59	55,0	57,71	..	...	36½ S	α *Corvi.*
		3	38,4	12	5	57,4	8	10,6	57,19	..	...	45 N	ξ *Urs. Maj.*
		18	46,6	12	20	2,4	21	16,0	2,53	..	...	23½ S	δ *Corvi.*
		23	6,3	12	24	25,4	25	41,8	25,43	..	...	35½ S	β *Corvi.*
		30	48,4	12	32	2,0	33	12,0	1,75	..	...	13½ S	γ *Virginis.*
		43	22,4	12	45	38,0	47	47,0	37,56	1	1,2	44 N	ε *Urs. Maj.*
		58	55,0	13	0	7,6	1	18,6	7,86	1	1,13	17½ S	θ *Virginis.*
		8	28,0	13	9	58,0	11	25,0	- -	-	- -	48½ S	ε *Centauri.*
		13	57,8	13	15	12,8	16	24,0	12,21	1	1,6	23½ S	*Spicæ Virginis.*
	31	29	2,5	4	30	22,0	31	38,3	30,09	1	1,83	- - -	☉ 1 L.
		31	19,0	4	32	38,0	33	55,0					☉ 2 L.
		38	2,6	11	39	18,0	40	32,5	18,95	1	1,83	2½ N	β *Leonis.*
		41	37,7	11	43	44,4	45	47,5	44,63	1	1,78	41½ N	γ *Urs. Maj.*
		59	1,4	12	0	20,0	1	36,4	20,16	..	...	34½ S	ε *Corvi.*
		4	44,0	12	-	-	6	15,0	- -	-	- -	29½ S	γ *Corvi.*

In the YEAR M.DCCCXII.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
MAY 31	13	32,0	12	16	8,9	18	38,0	7,9	..	...	75 S	*α Crucis.*
	58	52,0	13	0	5,5	1	16,4	5,48	..	...	17½ S	*δ Virginis*
	6	16,3	13	8	6,0	9	52,0	5,78	..	...	35½ S	*υ Hydræ*
	13	56,4	13	15	11,0	16	22,0	10,76	..	...	23¼ S	*ε Virginis.*
JUNE 1	33	6,0	4	34	25,3	35	41,0					⊙ 1 L.
	35	23,0	4	36	41,0	37	58,3	33,38	1	1,91	- - -	⊙ 2 L.
	28	1,4	11	59	17,6	40	31,0	17,58	1	1,37	2½ N	*β Leonis.*
	41	36,0	11	43	42,6	45	45,0	42,72	1	1,77	41¼ N	*γ Urs. Maj.*
2	37	9,4	4	38	20,0	39	46,4					⊙ 1 L.
	39	26,0	4	40	45,5	41	52,4	37,31	1	1,69	- - -	⊙ 2 L.
	37	59,6	11	59	15,6	40	29,0	15,63	1	1,93	2¾ N	*β Leonis.*
	56	35,5	11	58	28,8	0	18,0	28,79	..	...	62½ S	*δ Centauri.*
	2	46,4	12	5	3,0	7	15,4	3,35	..	...	70¾ S	*δ Crucis.*
	8	53,2	12	10	5,5	11	16,3	5,80	..	...	12½ S	*η Virginis.*
	22	41,4	12	25	56,6	29	6,4	5,66	..	...	81¼ S	*α Mus. Indic.*
	-	-	12	51	1,0	32	46,3	0,90	..	...	61 S	*γ Centauri.*
	-	-	12	36	39,0	38	55,0	- -	..	...	71½ S	*β Crucis.*
	43	17,5	12	45	32,0	47	42,0	32,10	..	...	44 N	*ε Urs. Maj.*
3	41	13,3	4	42	33,0	43	50,0					⊙ 1 L.
	43	30,5	4	44	50,3	46	7,0	41,63	1	1,76	- - -	⊙ 2 L.
	37	58,0	11	39	14,3	40	28,0	14,33	1	1,3	2¼ N	*β Leonis.*
	57	11,5	11	58	31,6	59	48,0	31,39	..	...	86½ S	*α Corvi.*
	13	26,5	12	16	1,5	18	33,0	2,03	1	1,67	75 S	*α Crucis.*
	23	0,0	12	24	19,0	25	35,3	19,04	..	...	55½ S	*β Corvi.*
	13	51,0	13	15	5,5	16	17,0	5,42	..	...	23¼ S	*α Virginis.*
	38	0,0	13	39	54,0	41	45,5	54,40	..	...	37¼ N	*η Urs. Maj.*
	44	13,5	13	45	31,0	46	46,0	31,07	..	...	6¼ N	*η Bootis.*
4	15	18,0	4	46	38,0	47	55,0					⊙ 1 L.
	47	35,5	4	48	55,0	50	12,3	46,58	1	1,55	- - -	⊙ 2 L.
	37	56,4	11	39	12,3	40	26,0	12,44	1	1,87	2¾ N	*β Leonis.*
	41	31,0	11	43	37,4	45	41,2	37,48	1	1,57	41½ N	*γ Urs. Maj.*
	56	32,3	11	58	25,4	0	15,0	25,57	..	...	62¼ S	*δ Centauri.*
	22	58,0	12	24	17,0	25	33,4	17,09	..	...	35½ S	*β Corvi.*
	29	8,7	12	30	58,0	32	43,0	57,87	..	...	61 S	*γ Centauri.*
	34	15,0	12	36	35,5	38	52,0	35,7	..	...	71½ S	*β Crucis.*
	13	14,0	12	45	28,8	47	38,0	28,35	..	...	44 N	*ε Urs. Maj.*
	7	10,0	13	8	29,0	9	45,4	29,06	..	...	35½ S	*γ Hydræ.*
	13	49,4	13	15	3,6	16	15,5	3,69	1	1,67	23¼ S	*Spica Virginis.*
	37	58,0	13	39	52,2	41	42,3	52,45	1	2,0	37¼ N	*η Urs. Maj.*
	14	12,0	13	45	29,3	46	44,4	29,44	1	1,6	6¼ N	*η Bootis.*
5	49	23,3	4	50	43,0	52	0,5					⊙ 1 L.
	51	40,5	4	53	0,0	54	16,2	51,53	1	1,85	- - -	⊙ 2 L.
	37	51,5	11	39	10,3	40	24,3	10,62	1	1,8	2¼ N	*β Leonis.*
	41	29,4	11	43	36,0	45	39,5	36,36	1	1,57	41½ N	*γ Urs. Maj.*
	57	7,6	11	58	27,3	59	45,0	27,54	..	...	86¼ S	*α Corvi.*
	3	28,0	12	5	47,0	8	0,5	46,86	..	...	45 N	*δ Urs. Maj.*
	18	36,0	12	19	52,5	21	5,5	- -	..	...	28½ S	*γ Corvi.*
	22	56,0	12	24	15,3	25	32,0	15,37	1	1,7	35¼ S	*β Corvi.*
	34	13,3	12	36	34,0	38	50,0	34,02	1	1,73	71½ S	*β Crucis.*
	13	47,6	13	15	1,5	16	14,5	1,92	1	1,63	23¼ S	*Spica Virg.*
	37	56.5	13	39	50,4	41	41,8	50,80	1	1,6	37¼ N	*η Urs. Maj.*
	44	11,0	13	45	28,0	46	43,0	28,19	..	...	6¼ N	*η Bootis.*
6	- - Cloudy		4 Night.	57	50,0	58	21,0	- -	..	...	- - -	⊙ 2 L.
7	Rain and Cloudy.											
8	19h 30′ A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.											

In the YEAR M.DCCCXII.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
JUNE 8	1	41,3	5	3	1,4	4	19,0			—		
	3	59,5	5	5	18,5	6	36,0	10,26	3	1,74	- - -	⊙ 1 L.
	-	-	11	39	7,0	40	20,3	7,0	1	1,2	2¾ N	⊙ 2 L.
	41	26,0	11	43	32,3	45	34,4	32,38	1	1,86	41½ N	β *Leonis.*
	56	26,5	11	58	19,5	0	9,0	19,64	..	...	62¼ S	γ *Urs. Maj.*
	2	37,0	12	4	51,0	7	7,0	54,22	..	...	70¼ S	δ *Centauri.*
	13	18,5	12	15	55,0	18	26,0	55,03	..	...	75 S	δ *Crucis.*
	22	53,0	12	24	11,4	25	27,5	11,55	1	1,27	55¼ S	α *Crucis.*
	30	34,5	12	31	47,6	32	58,5	47,71	..	...	13¼ S	β *Corvi.*
	-	-	12	45	23,4	47	32,6	23,0	..	...	44 N	γ *Virginis.*
	51	13,0	12	52	28,7	53	41,0	28,53	..	...	1¾ S	ε *Urs. Maj.*
	58	39,5	12	59	53,5	1	4,4	53,36	..	...	17¼ S	ε *Virginis.*
	7	4,4	13	8	23,6	9	40,0	23,58	..	...	35¼ S	θ *Virginis.*
	13	44,0	13	14	57,8	16	10,0	58,0	1	1,81	23¼ S	γ *Hydræ.*
9	5	48,0	5	7	7,4	8	25,0					*Spica Virginis.*
	8	6,0	5	9	25,0	10	42,4	16,58	..	...	- - -	⊙ 1 L.
												⊙ 2 L.

Wound up the Clock: Arc of Vibration 1°: 42'. The Clock stopt some seconds while winding up.

	-	-	11	38	39,5	39	53,4	- -	..	...	2¾ N	β *Leonis.*
	-	-	11	59	40,0	0	58,0	- -	..	...	56½ S	α *Corvi.*
	-	-	12	5	15,8	7	29,0	15,50	..	...	45 N	δ *Urs. Maj.*
	12	51,0	12	15	27,3	17	58,0	27,3	..	...	75 S	α *Crucis.*
	22	25,0	12	23	43,8	25	1,0	- -	..	...	35½ S	β *Corvi.*
	58	12,8	12	59	26,0	0	37,5	- -	..	...	17¼ S	θ *Virginis.*
	6	36,0	13	7	56,0	9	12,4	55,81	..	...	35½ S	γ *Hydræ.*
	37	25,0	13	39	19,7	41	10,0	19,62	..	...	37½ N	η *Urs. Maj.*
10	9	28,6	5	10	48,4	12	5,5	57,12	..	...	- - -	⊙ 1 L.
	11	46,5	5	13	5,5	14	22,6					⊙ 2 L.
11	13	35,4	5	14	54,6	16	12,0	3,19	1	2,53	- - -	⊙ 1 L.
	15	51,0	5	17	11,5	18	29,0					⊙ 2 L.
	42	37,0	12	44	51,5	47	1,0	51,45	..	...	44 N	ε *Urs. Maj.*
	13	12,0	13	14	26,3	15	38,0	26,3	..	...	23¼ S	*Spica Virg.*
12	17	41,0	5	19	1,8	20	18,0	9,84	1	2,15	- - -	⊙ 1 L.
	19	58,5	5	21	18,8	22	35,5					⊙ 2 L.
13	21	46,8	5	23	7,0	24	24,7	15,83	1	3,01	- - -	⊙ 1 L.
	24	4,5	5	25	24,3	26	42,0					⊙ 2 L.
14	25	53,4	5	27	13,0	28	30,6	21,91	1	3,02	- - -	⊙ 1 L.
	28	10,0	5	29	30,8	30	48,0					⊙ 2 L.
	50	33,0	12	51	48,5	53	0,5	48,30	..	...	1¾ S	ε *Virginis.*
	6	24,6	13	7	43,5	9	0,0	43,61	..	...	35½ S	γ *Hydræ.*
	13	4,5	13	14	17,5	15	28,5	17,65	1	2,87	23½ S	*Spica Virg.*
15	30	0,0	5	31	19,8	32	37,2	28,70	1	2,41	- - -	⊙ 1 L.
	32	17,5	5	33	37,0	34	55,0					⊙ 2 L.
16	34	6,0	5	35	26,4	36	44,0	35,32	..	...	- - -	⊙ 1 L.
	36	24,0	5	37	44,0	39	1,8					⊙ 2 L.
	-	-	12	51	43,8	52	57,5	43,48	..	...	1¾ S	ε *Virginis.*
	13	0,0	13	-	-	15	26,0	- -	1	1,75	23¼ S	*Spica.*
	37	7,0	13	39	1,5	40	52,0	1,52	..	...	37½ N	η *Urs. Maj.*
	43	21,0	13	44	39,0	45	54,3	39,02	..	...	6¼ N	η *Bootis.*
	-	-	13	54	32,0	56	2,5	- -	..	...	48½ S	θ *Centauri.*
	4	42,0	14	6	0,0	7	15,5	0,07	..	...	7¼ N	*Arcturus.*
17	38	13,0	5	39	33,4	40	51,0	42,42	..	...	- - -	⊙ 1 L.
	40	31,0	5	41	51,0	43	9,4					⊙ 2 L.
	29	46,3	12	31	0,0	32	11,0	59,98	..	...	13¼ S	γ *Virginis.*
	42	21,5	12	-	-	46	45,5	35,80	..	...	44 N	ε *Urs. Maj.*

In the YEAR M.DCCCXII.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
JUNE 18	42	20,4	5	43	40,3	44	58,0	49,37	..	...	- - -	☉ 1 L.
	44	38,0	5	45	58,3	47	15,5					☉ 2 L.
	59	27,0	13	0	41,5	1	54,6	41,84	..	...	- - -	☽ 1 L. 7h 15′ 17″,37 mean Time.
19	46	27,5	5	47	47,4	49	4,5	56,04	1	2,83	- - -	☉ 1 L.
	48	44,5	5	50	5,0	51	22,0					☉ 2 L.
	47	32,3	8	48	50,0	50	5,0	50,04	..	...	6 N	♀ *Centrum.* 3h 0′ 13″,37 mean Time.
	45	59,0	13	47	13,5	48	24,5	13,30	..	...	20½ S	☽ 1 L. 7h 57′ 48″,34 mean Time.
20	30	33,0	5	51	54,3	53	12,0	2,97	1	2,67	- - -	☉ 1 L.
	52	51,4	5	54	12,0	55	29,4					☉ 2 L.
	12	48,4	13	14	3,0	15	14,6	2,91	1	2,9	23½ S	*Spica.*
	47	3,0	13	49	26,0	51	46,0	26,5	..	...	72½ S	*β Centauri.*
	4	32,2	14	5	50,0	7	5,0	50,0	1	2,5	7 N	*Arcturus.*
	33	46,3	14	35	1,5	36	15,0	1,76	..	...	19½ S	☽ 1 L. 8h 41′ 35″,67 mean Time.
21	54	40,0	5	56	1,5	57	19,4	10,11	1	2,26	- - -	☉ 1 L.
	56	58,5	5	58	19,0	59	36,5					☉ 2 L.
22	58	49,3	6	0	9,4	1	27,0	18,15	..	...	- - -	☉ 1 L.
	1	6,5	6	2	27,0	3	44,0					☉ 2 L.
24	7	4,0	6	8	24,0	9	42,0	33,12	2	1,82	- - -	☉ 1 L.
	9	21,5	6	10	42,0	11	59,5					☉ 2 L.
25	-	-	6	12	32,0	13	47,0	39,5	1	2,82	- - -	☉ 1 L.
	-	-	6	14	47,0	-	-					☉ 2 L.
26	15	19,0	6	16	38,5	17	57,0	47,87	..	...	- - -	☉ 1 L.
	17	37,0	6	18	56,5	20	13,5					☉ 2 L.
27	19	27,0	6	20	46,0	22	4,0	55,32	..	...	- - -	☉ 1 L.
	21	44,0	6	23	4,2	24	21,0					☉ 2 L.
28	19	34,0	15	21	10,3	22	44,0	- -	..	....	53½ S	*υ Lupi.*
	24	16,0	15	25	39,4	27	0,0	- -	..	....	42½ S	*ο Scorpionis.*
	44	40,3	15	46	1,0	47	19,4	- -	..	....	38½ S	
	Wound up the Clock: Arc of Vibration 1°: 42′.—Clock stopt about 4′ while winding. Examined the Line of Collimation and Meridian adjustment,—found both right.											
29	27	37,0	6	28	56,5	30	14,7	5,4	..	...	- - -	☉ 1 L.
	29	54,0	-	31	13,5	32	31,0					☉ 2 L.
	36	36,8	13	38	31,0	40	21,5	31,10	..	...	37½ N	*η Urs. Maj.*
	42	50,7	13	44	8,4	45	23,7	8,49	..	...	6½ N	*η Bootis.*
	-	-	13	49	6,3	51	25,0	- -	..	...	72½ S	*β Centauri.*
	52	35,0	13	54	4,3	55	31,3	4.47	..	...	48½ S	*θ Centauri.*
	4	12,3	14	5	30,0	6	45,0	30,05	..	...	7½ N	*Arcturus.*
	20	25,2	14	22	2,4	23	37,0	- -	..	...	54½ S	*η Centauri.*
	26	8,5	14	27	54,5	29	38,0	- -	..	...	59½ S	*α Lupi.*
	33	49,5	14	35	11,0	36	31,0	- -	..	...	14½ N	*ε Bootis.*
	43	47,6	14	45	24,0	46	58,3	- -	..	...	54½ S	*κ Centauri.*
	50	10,0	14	51	30,0	52	48,3	30,24	..	...	37½ S	*γ Scorpionis.*
	19	29,6	15	21	6,5	22	38,5	- -	..	...	53½ S	*γ Lupi.*
	24	12,3	15	25	34,0	26	52,8	- -	..	...	42½ S	*ο Scorpionis.*
30	31	44,0	6	33	4,0	34	21,5	12,68	..	—	- - -	☉ 1 L.
	34	1,5	6	35	21,0	36	38,4					☉ 2 L.
	36	35,0	13	38	29,5	40	20,0	29,52	1	1,6	37½ N	*η Urs. Maj.*
	-	-	13	44	6,7	45	21,4	- -	1	2,0	7½ N.	*η Bootis.*
	-	-	13	49	5,5	51	24,0	- -	..	...	72½ S	*β Centauri.*
	52	33,0	13	54	3,0	55	29,0	2,75	1	1,87	48½ S	*θ Centauri.*
	4	10,0	14	5	28,3	6	43,4	28,2	1	1,87	7½ N	*Arcturus.*
	22	54,0	14	25	20,0	27	42,0	20,26	..	...	73½ S	*α Centauri.*
	33	46,3	14	35	9,4	36	29,0	- -	..	...	14½ N	*ε Bootis.*
	43	1,4	14	44	40,0	46	15,5	- -	..	...	54½ S	*δ Centauri.*
	50	8,6	14	51	29,0	52	47,2	29,14	1	1,17	37½ S	*γ Scorpionis.*

In the YEAR M.DCCCXII.

DAY OF THE MONTH.	I. Wire.	MERIDIAN.	III. Wire.	Reduction of Wires.	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters of the* STARS AND PLANETS.
	M S	H M S	M S	S				
JULY 1	35 50,2	6 37 10,0	38 27,8	18,84	..	...	- - -	☉ 1 L.
	38 7,6	6 39 27,0	40 45,0					☉ 2 L.
	52 31,0	13 54 1,0	55 28,0	1,0	1	1,7	48¼ S	θ *Centauri.*
	4 8,5	14 5 27,0	6 41,8	26,75	1	1,47	7¼ N	*Arcturus.*
	22 51,5	14 25 18,4	27 40,5	18,46	1	1,87	73¼ S	α *Centauri.*
	33 44,8	14 35 7,6	36 27,0	7,46	1	1,77	14¼ N	ε *Bootis.*
	43 0,0	14 44 39,0	46 14,0	38,67	1	1,8	54½ S	δ *Centauri.*
	50 7,0	14 51 27,5	52 45,0	27,49	1	1,77	57¼ N	γ *Scorpionis.*
2	39 57,4	6 41 16,5	42 34,0	25,46	..	...	- - -	☉ 1 L.
	42 14,0	6 43 34,0	44 51,4					☉ 2 L.
3	44 2,8	6 45 23,0	46 40,0	31,54	1	1,72	- - -	☉ 1 L.
	46 20,4	6 47 40,2	48 57,4					☉ 2 L.
	11 25,0	9 12 42,0	13 55,5	- -	..	...	2 N	☿ *Centrum.* 2ʰ 29′ 28″,07 mean Time.
	42 43,0	13 44 1,3	45 15,5	0,97	..	...	6¼ N	η *Bootis.*
	4 4,0	14 5 23,0	6 37,4	- -	1	2,15	7¼ N	*Arcturus.*
	20 16,0	14 21 54,5	23 30,0	- -	..	...	54½ S	η *Centauri.*
4	48 8,0	6 49 28,2	50 45,0	30,40	..	...	- - -	☉ 1 L.
	50 25,0	6 51 45,0	53 2,2					☉ 2 L.
5	52 13,0	6 53 32,4	54 50,5	41,68	1	1,97	- - -	☉ 1 L.
	54 30,0	6 55 50,4	57 8,0					☉ 2 L.
	52 23,4	13 53 52,6	55 19,5	52,2	..	...	48¼ S	θ *Centauri.*
	4 0,4	14 5 18,0	6 32,5	17,90	2	2,25	7¼ N	*Arcturus.*
	10 40,0	14 12 23,0	14 3,0	- -	..	...	57¼ S	τ *Centauri.*
	22 43,5	14 25 10,5	27 31,0	10,14	..	...	73¼ S	α *Centauri.*
	33 36,0	14 34 59,0	36 19,0	58,95	..	...	14¼ N	ε *Bootis.*
	42 51,0	14 44 30,0	46 51,5	29,79	..	...	55¼ S	δ *Centauri.*
	5 43,0	15 7 19,0	8 50,4	18,9	..	...	53¼ S	δ *Lupi.*
	- -	15 20 52,0	22 26,0	- -	..	...	52¼ S	γ *Lupi.*
	Examined the Line of Collimation and Meridian adjustment,—found both right.							
6	56 18,4	6 57 38,0	58 55,0	46,69	1	1,84	- - -	☉ 1 L.
	58 35,7	6 59 55,0	1 12,6					☉ 2 L.
	3 58,4	14 5 16,0	6 31,0	16,03	1	1,83	7¼ N	*Arcturus.*
	43 32,0	14 45 10,4	46 43,0	10,35	..	...	54½ S	α *Centauri.*
8	4 26,0	7 - -	7 3,0	54,87	2	2,21	- - -	☉ 1 L.
	- -	7 8 3,0	9 21,0					☉ 2 L.
	22 37,0	14 25 4,0	27 26,4	4,11	..	...	73¼ S	α *Centauri.*
9	8 30,5	7 9 50,0	11 7,0	58,58	1	2,11	- - -	☉ 1 L.
	10 47,5	7 12 7,0	13 24,0					☉ 2 L.
	3 51,4	14 5 9,0	6 24,0	9,03	3	2,33	7¼ N	*Arcturus.*
	22 55,0	14 25 1,0	27 23,5	1,39	..	...	73¼ S	α *Centauri.*
	33 27,5	14 34 50,0	36 10,0	50,0	..	...	14¼ N	ε *Bootis.*
	- -	14 44 21,0	45 57,4	- -	..	...	54¼ S	δ *Centauri.*
	49 49,8	14 51 10,0	52 28,0	10,14	..	...	37¼ S	γ *Scorpionis.*
	3 44,0	15 4 58,5	6 10,3	58,46	..	...	22 S	β *Libræ.*
	13 54,0	15 15 27,0	16 57,0	27,06	..	...	25 N	μ *Bootis.*
	23 24,6	15 24 48,0	26 7,8	47,81	..	...	14¼ N	α *Coron. Boreal.*
	31 51,0	15 33 5,0	34 16,0	4,88	..	...	6¼ S	α *Serpentis.*
	36 40,4	15 37 53,5	39 4,8	53,65	..	...	16¼ S	σ *Serpentis.*
10	3 48,5	14 5 7,0	6 22,2	6,85	1	2,23	7¼ N	*Arcturus.*
	22 53,0	14 24 59,3	27 21,6	59,56	1	1,87	73¼ S	α *Centauri.*
	33 25,0	14 34 48,0	36 8,0	47,96	1	2,17	14¼ N	ε *Bootis.*
	42 39,0	14 44 18,0	45 54,0	17,97	..	...	54¼ S	δ *Centauri.*
	49 47,8	14 51 7,3	52 25,0	7,42	1	2,73	37¼ S	γ *Scorpionis.*
	3 42,2	15 4 56,0	6 7,3	56,01	1	2,43	22 S	β *Libræ.*
	13 52,0	15 15 24,5	16 54,5	24,87	1	2,33	25 N	μ *Bootis.*
	23 22,5	15 24 45,5	26 5,1	45,33	1	2,47	14¼ N	α *Coron. Boreal.*
	31 49,0	15 33 3,0	34 14,2	2,93	1	1,93	6¼ S	α *Serpentis.*

In the YEAR M.DCCCXII.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.		Names or Characters of the STARS AND PLANETS.
JULY 10	36	37,6	15	37	50,8	39	1,6	50,85	..	. . .	16½	S	*σ Serpentis.*
	44	11,0	15	45	32,4	46	51,2	32,46	..	. . .	38½	S	*π Scorpionis.*
	51	16,3	15	52	33,5	53	48,5	33,62	..	. . .	32½	S	*β Scorpionis.*
11	16	37,0	7	17	56,0	19	13,4	4,39	2	2,10	- - -		☉ 1 L.
	18	53,0	7	20	12,5	21	29,0						☉ 2 L.
	3	46,0	14	5	4,0	6	20,0	4,4	1	2,57	7½	N	*Arcturus.*
	22	30,5	14	24	56,0	27	18,0	56,41	..	. . .	73½	S	*α Centauri.*
	33	22,4	14	34	45,3	36	5,0	45,41	..	. . .	14½	N	*ε Bootis.*
	42	38,0	14	44	16,3	45	51,5	16,62	..	. . .	54½	S	*δ Centauri.*
	49	44,0	14	51	4,6	52	23,0	4,74	1	2,67	37½	S	*γ Scorpionis.*
	3	39,0	15	4	53,4	6	5,3	53,41	1	2,6	22	S	*β Libræ.*
	13	49,3	15	15	22,0	16	52,0	22,13	1	2,57	25	N	*μ. Bootis.*
	23	20,0	15	24	43,0	26	2,3	42,78	1	2,57	14½	N	*α Coron. Boreal.*
	31	46,0	15	33	0,0	34	11,4	59,98	1	3,07	6½	S	*α Serpentis.*
	36	35,0	15	37	48,0	38	59,3	48,22	1	2,67	16½	S	*σ Serpentis.*
	44	8,0	15	45	30,2	46	48,4	29,91	1	2,73	38½	S	*π Scorpionis.*
	51	13,2	15	52	31,4	53	46,0	31,22	1	2,57	32½	S	*β Scorpionis.*
12	22	27,8	14	24	53,4	27	16,0	53,4	1	2,43	73½	S	*α Centauri.*
	33	20,0	14	34	43,0	36	3,0	42,96	1	2,23	14½	N	*ε Bootis.*
	42	34,6	14	44	14,0	45	49,2	14,10	1	2,67	54½	S	*δ Centauri.*
	49	42,4	14	51	2,5	52	20,2	2,59	1	2,17	37½	S	*γ Scorpionis.*
	3	37,0	15	4	51,0	6	3,0	51,14	1	2,23	22	S	*β Libræ.*
	13	47,2	15	15	20,0	16	50,0	20,11	1	2,03	25	N	*μ. Bootis.*
	23	18,0	15	24	41,2	26	0,0	40,81	1	2,03	14½	N	*α Coron. Boreal.*
	31	44,0	15	32	58,0	34	9,0	57,88	1	2,13	6½	S	*α Serpentis.*
	36	33,2	15	37	45,8	38	57,0	46,10	1	2,1	16½	S	*σ Serpentis,*
	44	6,0	15	45	27,4	46	45,7	27,34	1	2,5	38½	S	*π Scorpionis.*
	51	10,8	15	52	29,0	53	43,0	29,0	1	2,6	32½	S	*β Scorpionis.*
13	24	42,5	7	26	1,4	27	17,8	9,34	2	1,83	- - -		☉ 1 L.
	26	58,5	7	28	17,0	29	33,4						☉ 2 L.
	36	30,6	15	37	44,0	38	55,0	44,02	..	. . .	16½	S	*σ Serpentis.*
	44	3,8	15	45	25,0	46	44,0	25,16	1	2,1	38½	S	*π Scorpionis.*
	51	9,0	15	52	27,0	53	41,0	26,67	1	1,93	32½	S	*β Scorpionis.*
	6	21,0	16	7	42,0	9	0,5	44,09	..	. . .	38½	S	*σ Scorpionis.*
14	28	43,6	7	30	2,2	31	18,6	10,34	1	2,6	- - -		☉ 1 L.
	30	59,4	7	32	17,8	33	35,0						☉ 2 L.
	3	39,2	14	4	56,6	6	13,0	- -	..	. . .	7½	N	*Arcturus.*
	22	22,4	14	24	48,5	27	11,0	48,86	2	2,55	73½	S	*α Centauri.*
	33	15,7	14	34	38,5	35	58,6	38,53	2	2,2	14½	N	*ε Bootis.*
	49	38,0	14	50	58,2	52	16,0	58,29	2	2,15	37½	S	*γ Scorpionis.*
	3	32,6	15	4	47,0	5	58,2	46,84	2	2,3	22	S	*β Libræ.*
	13	42,5	15	15	15,0	16	45,2	15,23	2	2,41	25	N	*μ. Bootis.*
	23	14,0	15	24	38,0	25	56,0	- -	..	. . .	14½	N	*α Coron. Bor.*
	36	28,7	15	37	42,0	38	53,4	42,17	2	1,99	16½	S	*σ Serpentis.*
	44	2,2	15	45	23,0	46	42,0	23,26	1	1,99	38½	S	*π Scorpionis.*
	51	6,5	15	52	24,0	53	39,0	24,04	1	2,21	32½	S	*β Scorpionis.*
15	32	44,2	7	34	3,0	35	20,0	11,47	1	1,97	- - -		☉ 1 L.
	35	0,0	7	36	20,4	37	35,0						☉ 2 L.
	3	30,0	15	4	44,8	5	56,0	44,54	1	2,33	22	S	*β Libræ.*
	23	11,2	15	24	35,6	25	53,4	- -	1	2,6	14½	N	*α Coron. Bor.*
	51	4,0	15	52	21,5	53	36,6	21,57	1	2,47	32½	S	*β Scorpionis.*
16	36	44,2	7	38	2,5	39	19,6	11,05	1	2,92	- - -		☉ 1 L.
	39	0,0	7	40	19,0	41	35,4						☉ 2 L.
	33	12,5	14	34	34,0	35	54,0	34,33	1	2,05	14½	N	*ε Bootis.*
	31	35,0	15	32	48,5	34	0,0	48,63	..	. . .	6½	S	*α Serpentis.*
	36	23,4	15	37	37,5	38	47,4	37,1	2	2,8	16½	S	*σ Serpentis.*
19	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.												
	Wound up the Clock: Arc of Vibration 1°: 42'.—The Clock stopt about 10' while winding.												

In the YEAR M.DCCCXII.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
JULY 20	52	41,8	7	54	0,0	55	15,4	7,48	..	...	. . .	⊙ 1 L.
	54	57,0	7	56	14,7	57	31,0					⊙ 2 L.
	22	5?,4	15	24	18,0	25	38,0	18,31	..	...	14¼ N	*α Coron. Boreal.*
	31	22,6	15	32	36,4	33	47,0	36,08	..	...	0¼ S	*α Serpentis.*
	35	10,5	15	37	24,0	38	35,0	24,02	..	...	16¾ S	*μ. Serpentis.*
	14	8,0	16	15	30,0	16	48,2	29,7	..	...	59¼ S	*Antares.*
	44	58,2	16	46	17,6	47	33,0	17,29	..	...	31 S	☽ 1 L. 8h 55′ 38″,18 mean Time.
21	56	36,4	7	57	54,7	59	10,2	2,01	..	...	. . .	⊙ 1 L.
	58	51,5	8	0	10,9	1	24,3					⊙ 2 L.
23	4	30,0	8	5	48,5	7	3,0	55,65	..	...	. . .	⊙ 1 L.
	6	45,0	8	8	3,0	9	19,0					⊙ 2 L.
24	8	27,0	8	9	43,3	11	58,4	- -	..	...	. . .	⊙ 1 L.
	10	40,0	8	11	58,0	13	14,0					⊙ 2 L.
25	12	20,0	8	13	35,0	14	54,0	- -	..	...	. . .	⊙ 1 L.
	14	35,5	8	15	51,5	17	9,0					⊙ 2 L.
26	16	15,0	8	17	33,0	18	46,5	- -	..	...	. . .	⊙ 1 L.
	18	30,0	8	19	46,5	21	3,0					⊙ 2 L.
	50	29,0	15	51	52,0	53	7,0	- -	..	...	32¼ S	
	Examined the Line of Collimation and Meridian adjustment,—the former a *very little* out of adjustment,—so little indeed as to be scarcely perceptible—adjusted it.											
27	20	9,5	8	21	28,0	22	42,0	34,88	..	...	. . .	⊙ 1 L.
	22	24,0	8	23	42,0	24	57,4					⊙ 2 L.
28	24	3,4	8	25	21,0	26	36,4	28,03	1	—	. . .	⊙ 1 L.
	26	17,4	8	27	35,0	28	50,0			2,3		⊙ 2 L.
29	27	56,0	8	29	13,8	30	29,4	21,08	1	2,05	. . .	⊙ 1 L.
	30	11,0	8	31	28,3	32	43,0					⊙ 2 L.
	43	23,0	15	44	43,5	46	2,0	43,71	..	...	38¼ S	*π Scorpionis.*
30	31	48,0	8	33	6,2	34	21,2	13,16	1	2,52	. . .	⊙ 1 L.
	34	3,0	8	35	20,5	36	35,0					⊙ 2 L.
	22	46,0	16	24	0,3	25	12,0	0,29	..	...	23¼ S	*ζ Ophiuchi.*
	55	34,0	16	56	48,2	58	1,0	48,50	..	...	28¼ S	*η Ophiuchi.*
AUGUST 1	38	50,4	8	40	6,8	41	22,0	14,11	..	...	. . .	⊙ 1 L.
	41	4,0	8	42	21,0	43	35,5					⊙ 2 L.
3	46	35,0	8	47	52,2	49	6,4	58,40	2	0,6	. . .	⊙ 1 L.
	48	48,0	8	50	4,6	51	19,0					⊙ 2 L.
	3	33,4	16	4	46,0	55	56,0	55,97	..	...	17¼ S	*ε Ophiuchi.*
	Examined the Line of Collimation and Meridian adjustment,—the latter a very little out,—adjusted it.											
4	50	24,5	8	51	41,0	52	55,5	47,90	1	2,00	. . .	⊙ 1 L.
	52	37,5	8	53	54,5	55	9,4					⊙ 2 L.
5	54	15,0	8	55	32,5	56	46,0	38,48	1	0,52	. . .	⊙ 1 L.
	56	28,4	8	57	45,0	58	59,0					⊙ 2 L.
6	58	4,4	8	59	21,0	0	35,0	27,30	1	1,72	. . .	⊙ 1 L.
	0	17,4	9	1	33,5	2	47,5					⊙ 2 L.
	29	17,3	17	30	30,7	31	44,5	30,7	..	...	8¼ S	*β Ophiuchi.*
7	1	52,5	9	3	9,6	4	25,0	15,85	1	1,35	. . .	⊙ 1 L.
	4	5,6	9	5	22,0	6	36,0					⊙ 2 L.

In the YEAR MDCCCXII.

DAY OF THE MONTH.	I. Wire.		MERIDIAN.			III. Wire.		Reduction of Wires.	No. of Days	Rate of Clock.	Zenith Distance.	Names or Characters of the STARS AND PLANETS.
	M	S	H	M	S	M	S	S				
August 9	9	29,0	9	10	43,0	11	59,2	51,0	1	1,13	. . .	☉ 1 L.
	11	40,3	9	12	57,0	14	10,5					☉ 2 L.
	54	35,0	16	55	51,2	57	5,0	31,25	..	. . .	28½ S	η *Ophiuchi.*
	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.											
10	Wound up the Clock: Arc of Vibration 1°: 45′.											
	13	15,3	9	14	32,0	15	46,3	38,96	1	0,14	. . .	☉ 1 L.
	13	27,5	9	16	43,8	17	58,0					☉ 2 L.
	21	47,3	16	29	2,0	24	13,2	1,76	..	. . .	23¾ S	ζ *Ophiuchi.*
	32	45,0	16	34	13,3	35	39,0	13,46	..	. . .	47 S	ε *Scorpionis.*
	.	.	16	40	52,3	42	49,5	. .	..	. . .	60½ S	ε *Arae.*
	43	45,0	16	44	59,0	46	11,2	59,35	..	. . .	5½ S	κ *Ophiuchi.*
	54	33,4	16	55	49,0	57	2,8	49,20	..	. . .	28½ S	η *Ophiuchi.*
	5	21,0	17	6	41,2	7	59,0	. .	..	. . .	37½ S	θ *Ophiuchi.*
	15	33,9	17	17	4,4	18	33,0	4,5	..	. . .	50½ S	λ *Scorpionis.*
	.	.	17	25	43,0	27	14,0	43,2	..	. . .	51½ S	κ *Scorpionis.*
	3	6,0	18	4	26,0	5	42,3	25,77	..	. . .	36½ S	♄ *Centrum.* 8ʰ 52′ 26″,8 mean Time.
11	17	1,0	9	18	16,8	19	30,0	22,76	..	. . .	. . .	☉ 1 L.
	19	13,0	9	20	28,5	21	42,0					☉ 2 L.
	20	5,4	12	21	20,0	22	32,0	16,98	..	. . .	12½ S	☽ 1 L. 3ʰ 6′ 22″,52 mean Time.
	Immersion of ♈ Virginis (a double Star) behind the ☽'s dark Limb. Time by Clock (S.) 1st Star 16ʰ 47′ 4″—2d Star 47′ 15″. Mean Time 7ʰ 31′ 22″,81. The Moon perfectly clear and at a convenient altitude.—Two Observers saw the Immersion at the same instant.											
	12	43,0	16	14	4,3	15	23,4	4,35	..	. . .	39½ S	*Antares.*
	21	45,4	16	22	59,7	24	10,8	59,54	1	2,2	23½ S	ζ *Ophiuchi.*
	32	42,5	16	34	11,4	35	56,0	. .	1	2,5	47½ S	ε *Scorpionis.*
	37	8,0	16	39	17,4	41	23,0	. .	..	. . .	69½ S	ξ *Arae.*
	43	43,0	16	44	57,0	46	8,5	57,0	1	2,23	5½ S	κ *Ophiuchi.*
	54	30,5	16	55	46,4	57	0,0	46,48	1	2,77	28½ S	η *Ophiuchi.*
	3	44,6	17	5	53,3	7	58,9	53,40	..	. . .	68½ S	β *Arae.*
	15	30,3	17	17	2,0	18	30,7	2,0	1	2,47	50½ S	λ *Scorpionis.*
	.	.	17	20	0,5	21	57,6	0,78	..	. . .	56½ S	θ *Scorpionis.*
	54	59,5	17	56	23,0	57	43,4	22,85	..	. . .	15½ N	ο *Herculis.*
	2	54,0	18	4	12,8	5	30,0	13,1	..	. . .	36½ S	♄ *Centrum.* 8ʰ 48′ 19″,87 mean Time.
12	20	46,2	9	22	2,0	23	15,0	7,53	1	2,22	. . .	☉ 1 L.
	23	0,0	9	24	13,0	25	26,5					☉ 2 L.
	Put the Clock forward 3′ 59″.											
	16	40,4	16	18	2,0	19	20,8	2,0	1	1,5	39½ S	*Antares.*
	25	42,0	16	26	56,8	28	8,0	56,54	1	2,0	23½ S	ζ *Ophiuchi.*
	36	40,0	16	38	8,4	39	33,6	8,36	1	1,63	47½ S	ε *Scorpionis.*
	42	45,5	16	44	47,0	46	44,3	47,15	..	. . .	60½ S	ε *Arae.*
	47	40,2	16	48	54,0	50	6,0	54,35	1	1,77	5½ S	κ *Ophiuchi.*
	16	36,0	17	18	8,0	19	36,4	8,0	..	. . .	50½ S	υ *Scorpionis.*
	.	.	17	23	57,8	25	34,3	57,8	1	2,0	56½ S	θ *Scorpionis.*
	.	.	17	29	38,3	31	9,0	38,35	..	. . .	52½ S	κ *Scorpionis.*
	32	59,0	17	34	35,0	36	7,5	54,95	..	. . .	55½ S	ι *Scorpionis.*
	58	57,8	18	0	20,0	1	40,6	20,20	1	1,67	15½ N	ο *Herculis.*
	6	42,0	18	8	0,4	9	17,2	0,70	..	. . .	36½ S	♄ *Centrum.* 8ʰ 44′ 41″,51 mean Time.
13	28	29,5	9	29	45,6	30	59,4	54,56	..	. . .	. . .	☉ 1 L.
	30	41,5	9	31	57,6	33	10,8					☉ 2 L.
	16	38,0	16	18	0,5	19	18,3	. .	1	2,13	39½ S	*Antares.*
	25	40,0	16	26	51,5	28	6,4	51,5	1	1,97	23½ S	ζ *Ophiuchi.*

In the YEAR M.DCCCXII.

DAY of the MONTH.	I. Wire. M	S	MERIDIAN. h	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters of the* STARS AND PLANETS.
AUGUST 13	36	38,3	16	38	6,5	39	31,6	6,48	1	1,87	47½ S	*ε Scorpionis.*
	42	43,7	16	44	45,0	46	42,5	45,27	1	1,87	66½ S	*ε Aræ.*
	47	38,0	16	48	52,3	50	4,4	52,37	1	1,83	5½ S	*κ Ophiuchi.*
	58	25,7	16	59	42,0	0	55,6	40,98	1	2,3	28½ S	*η Ophiuchi.*
	7	40,0	17	9	48,5	11	53,8	48,81	..	...	68½ S	*β Aræ.*
	16	34,0	17	18	5,4	19	34,4	5,55	1	2,2	50½ S	*υ Scorpionis.*
	-	-	17	23	55,4	25	32,0	55,44	..	...	56½ S	*θ Scorpionis.*
	28	1,5	17	29	35,5	31	6,5	35,56	..	...	52½ S	*κ Scorpionis.*
	32	57,4	17	34	32,5	36	5,5	32,77	1	2,03	53½ S	*ι Scorpionis.*
	-	-	17	39	11,8	40	31,7	11,65	..	...	14½ N	*μ Herculis.*
	50	22,3	17	52	20,4	54	14,0	20,29	..	...	38½ N	*γ Draconis.*
	58	54,4	18	0	18,3	1	39,0	18,15	1	2,07	15½ N	*ο Herculis.*
	6	30,0	18	7	49,3	9	5,0	49,1	..	...	36½ S	*♄ Centrum.* 8h 40′ 5″,70 mean Time.
14	32	12,8	9	33	29,3	34	40,0	34,40	1	2,96	- - -	⊙ 1 L.
	34	25,5	9	35	39,0	36	54,0					⊙ 2 L.
	25	37,0	16	26	51,4	28	3,5	51,47	1	3,0	23½ S	*ζ Ophiuchi.*
	36	35,0	16	38	3,6	39	29,0	3,56	1	2,93	47½ S	*ε Scorpionis.*
	-	-	16	44	42,0	46	39,5	- -	1	3,0	66½ S	*ε Aræ.*
	47	35,4	16	48	49,0	50	0,5	49,20	1	3,23	3½ S	*κ Ophiuchi.*
	58	23,0	16	59	38,8	0	53,0	39,05	1	2,83	28½ S	*η Ophiuchi.*
	7	37,4	17	9	46,0	11	54,4	46,1	1	2,83	68½ S	*β Aræ.*
	16	31,0	17	18	3,0	19	31,4	2,80	1	2,8	50½ S	*υ Scorpionis.*
	19	23,0	17	20	54,4	22	23,0	54,47	1	2,67	50 S	*λ Scorpionis.*
	-	-	17	23	52,6	25	29,8	52,94	1	2,5	56½ S	*θ Scorpionis.*
	27	59,0	17	29	32,8	31	3,4	32,8	1	2,77	52½ S	*κ Scorpionis.*
	37	46,0	17	39	9,0	40	29,0	8,96	1	2,75	14½ N	*μ Herculis.*
	50	20,0	17	52	17,7	54	11,4	17,70	1	2,83	38½ N	*γ Draconis.*
	58	52,0	18	0	15,0	1	36,0	15,25	1	2,9	15½ N	*ο Herculis.*
	6	18,0	18	7	37,3	8	53,8	37,30	..	...	36½ S	*♄ Centrum.* 8h 36′ 4″,37 mean Time.
15	35	56,2	9	37	12,3	38	25,0	17,45	1	2,15	- - -	⊙ 1 L.
	38	7,4	9	39	22,8	40	36,0					⊙ 2 L.
	16	33,0	-	-	-	19	13,0	- -	1	1,93	39½ S	*Antares.*
	25	34,0	16	26	48,8	28	0,4	48,65	1	2,9	23½ S	*ζ Ophiuchi.*
	36	32,0	16	38	0,5	39	26,0	0,51	1	3,03	47½ S	*ε Scorpionis.*
	47	35,0	-	-	-	49	58,0	- -	1	2,2	3½ S	*κ Ophiuchi.*
	50	17,3	17	52	15,4	54	9,0	15,29	1	2,47	38½ N	*γ Draconis.*
	29	1,0	18	30	34,5	32	5,0	34,56	..	...	25½ N	*α Lyræ.*
16	39	38,6	9	40	54,0	42	7,3	59,78	1	2,52	- - -	⊙ 1 L.
	41	50,0	9	43	5,5	44	18,0					⊙ 2 L.
	23	49,8	16	25	7,8	26	23,0	7,78	..	...	30½ S	☽ 1 L. 6h 46′ 4″,40 mean Time.
	36	29,8	16	37	57,8	39	23,0	57,85	1	2,63	47½ S	*ε Scorpionis.*
	58	17,6	16	59	34,0	0	47,6	33,95	1	2,7	28½ S	*η Ophiuchi.*
	7	31,4	17	9	40,0	11	45,0	40,28	2	2,9	68½ S	*β Aræ.*
	19	17,8	17	20	49,3	22	17,0	49,12	2	2,72	50 S	*λ Scorpionis.*
	27	53,0	17	29	27,0	30	58,2	27,11	2	2,84	52½ S	*κ Scorpionis.*
	37	39,3	17	39	3,0	40	23,3	2,86	2	3,07	14½ N	*μ Herculis.*
	5	55,8	18	7	15,0	8	31,0	14,77	..	...	36½ S	*♄ Centrum.* 8h 27′ 54″,85 mean Time.
17	43	20,5	9	44	36,0	45	49,5	41,5	1	2,73	- - -	⊙ 1 L.
	45	31,0	9	46	47,0	48	0,0					⊙ 2 L.
	26	27,0	16	27	55,3	29	23,4	55,25	1	2,63	47½ S	*ε Scorpionis.*
	47	28,2	16	48	41,0	49	52,8	- -	2	2,5	3½ S	*κ Ophiuchi.*
	58	15,0	16	59	31,4	0	44,8	31,30	1	2,67	28½ S	*η Ophiuchi.*
	17	26,3	17	18	45,0	20	1,4	45,23	..	...	52 S	☽ 1 L. 7h 35′ 39″,73 mean Time.
	27	50,5	17	29	25,0	30	56,0	24,93	1	2,23	53½ S	*κ Scorpionis.*
	37	37,0	17	39	1,0	40	21,0	0,71	1	2,2	14½ N	*μ Herculis.*
	50	11,4	17	52	9,0	54	3,0	9,11	2	3,05	38½ N	*γ Draconis.*
	5	45,8	18	7	5,0	8	21,0	4,77	..	...	36½ S	*♄ Centrum.* 8h 23′ 51″,62 mean Time.
	28	55,3	18	30	29,5	32	0,4	29,48	2	2,55	25½ N	*α Lyræ.*
18	47	1,8	9	48	17,6	49	30,0	22,40	..	...	- - -	⊙ 1 L.
	49	12,4	9	50	28,0	51	39,6					⊙ 2 L.
	36	24,0	16	37	52,4	39	17,5	52,32	1	2,93	47½ S	*ε Scorpionis.*
	47	24,8	16	48	39,0	49	50,0	38,85	1	2,73	3½ S	*κ Ophiuchi.*
	58	12,0	16	59	28,3	0	42,0	28,4	1	2,97	28½ S	*η Ophiuchi.*

In the YEAR M.DCCCXII.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.		Names or Characters of the STARS AND PLANETS.
AUGUST 18	7	26,4	17	9	35,0	11	40,0	35,21	2	2,5	68¼	S	β *Aræ.*
	19	12,0	17	20	42,8	22	11,0	42,90	2	3,05	50	S	λ *Scorpionis.*
	27	47,7	17	29	22,0	30	53,0	21,98	1	2,93	52¼	S	κ *Scorpionis.*
	50	9,0	17	52	7,0	54	0,0	6,76	1	2,47	38¼	N	γ *Draconis.*
	5	35,0	18	6	54,2	8	10,8	54,25	..	...	36¼	S	♄ *Centrum.* 8h 19′ 48″,11 mean Time.
	13	35,0	18	14	55,0	16	11,6	54,84	..	...	33¼	S	☽ 1 L. 8h 27′ 47″,40 mean Time.
	28	52,8	18	30	26,0	31	57,0	26,26	..	...	25¼	N	α *Lyræ.*
19	50	41,3	9	51	58,4	53	10,0	2,71	1	2,79	-	- -	⊙ 1 L.
	52	52,5	9	54	8,0	55	21,0						⊙ 2 L.
	36	21,0	16	37	49,8	39	15,0	49,66	1	2,7	47¼	S	ε *Scorpionis.*
	47	21,8	16	48	36,3	-	- -	- -	1	2,9	34	S	κ *Ophiuchi.*
	58	9,0	16	59	25,3	0	39,0	25,30	1	3,0	28¼	S	η *Ophiuchi.*
	7	23,0	17	9	39,0	11	37,2	32,16	1	3,07	68½	S	β *Aræ.*
	19	10,0	17	20	41,0	22	9,0	41,0	1	2,27	50	S	λ *Scorpionis.*
	27	45,0	17	29	19,4	30	51,0	19,51	1	2,45	52¼	S	κ *Scorpionis.*
	-	-	17	52	4,0	53	57,4	3,86	1	2,87	38¼	N	γ *Draconis.*
	5	25,0	18	6	44,6	8	1,0	44,50	..	...	36¼	S	♄ *Centrum.* 8h 15′ 45″,24 mean Time.
	28	50,0	18	30	23,6	31	54,2	23,66	1	2,67	25¼	N	α *Lyræ.*
20	54	22,8	9	55	38,3	56	51,0	43,33	1	2,08	-	- -	⊙ 1 L.
	56	33,4	9	57	48,0	59	1,6						⊙ 2 L.
	36	19,0	16	37	47,3	39	12,6	47.31	1	2,3	47¼	S	ε *Scorpionis.*
	47	18,5	16	48	33,6	49	45.4	33,40	1	3,0	5½	S	κ *Ophiuchi.*
	58	7,0	16	59	23,0	30	36,0	22,90	1	2,43	28½	S	η *Ophiuchi.*
	7	20,5	17	9	29,8	11	34,0	29,63	1	2,63	68½	S	β *Aræ.*
	19	7,4	17	20	38,4	22	6,0	38,30	1	2,73	50	S	λ *Scorpionis.*
	27	42,0	17	29	16,4	30	48,4	16,60	1	2,87	52¼	S	κ *Scorpionis.*
	37	30,0	17	38	53,0	40	13,4	53,06	..	...	4¼	N	μ *Herculis.*
	50	3,8	17	52	1,0	53	55,0	1,21	1	2,8	38¼	N	γ *Draconis.*
	5	16,0	18	6	35,0	7	52,0	35,4	..	...	36¼	S	♄ *Centrum.* 8h 11′ 42″,52 mean Time.
	28	47,5	18	30	21,0	31	51,0	20,93	1	2,77	25¼	N	α *Lyræ.*
21	58	2,5	9	59	18,0	0	30,8	23,17	1	2,36	-	- -	⊙ 1 L.
	0	13,4	10	1	27,0	2	41,0						⊙ 2 L.
	58	4,4	16	59	20,0	0	34,0	20,25	1	2,53	28½	S	η *Ophiuchi.*
	7	9,3	17	9	21,0	11	28,0	- -	..	...			γ *Aræ.*
	19	4,0	17	20	35,8	22	4,0	35,65	1	2,67	50	S	λ *Scorpionis.*
	27	40,0	17	29	14,4	30	45,0	14,26	1	2,33	52¼	S	κ *Scorpionis.*
	37	27,0	17	38	50,0	40	10,4	50,06	..	...	4½	N	μ *Herculis.*
	50	1,0	17	51	59,0	53	52,4	58,86	..	...	38¼	N	γ *Draconis.*
	5	7,5	18	6	26,0	7	43,0	26,65	..	...	36¼	S	♄ *Centrum.* 8h 7′ 40″,19 mean Time.
	14	45,0	18	16	7,0	17	25,3	6,8	..	...	38½	S	λ *Sagittarii.*
	28	45,0	18	30	19,2	31	49,4	19,51	1	1,97	25½	N	α *Lyræ.*
22	1	42,4	10	2	57,3	4	10,0	2,53	1	2,34	-	- -	⊙ 1 L.
	3	53,0	10	5	7,5	6	20,0						⊙ 2 L.

TOTAL ECLIPSE OF THE MOON.

	Time by Clock.			*Apparent Time.*		
Beginning of the Eclipse	16h	36′	49″	6h	31′	41,5″
Shadow covers Grimaldus		39	26		34	18,0
touches Keplerus		55	47		50	36,3
covers Keplerus		58	24		53	12,9
touches Tycho	17	1	55		56	43,3
at the eastern edge of Mare Serenitatis		11	45	7	6	31,7
touches Posidonius		20	24		15	9,3
touches Proclus		27	18		22	2,1
at the eastern edge of Mare Crisium		28	42		23	25,9
covers Mare Crisium		32	4		26	47,3
Beginning of Total Darkness		54	8		28	51,0
End of Total Darkness	19	14	24	9	8	50,4
Shadow at Grimaldus		18	0		12	25,8
leaves Grimaldus		18	50		13	15,7

In the YEAR M.DCCCXII.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	Names or Characters of the STARS AND PLANETS.

AUGUST 22 — ECLIPSE OF THE MOON *continued.*

	Time by Clock.		*Apparent Time.*	
Shadow leaves Aristarchus	19h 27′	2″	9h 21′	26,3″
leaves Kepler	30	10	24	33.8
at Tycho	35	52	30	15,0
leaves Tycho	37	5	31	27,0
leaves Copernicus	38	34	32	56,4
at the western edge of Mare Serenitatis	50	11	44	31,5
leaves Manilius	52	18	46	38,0
leaves Menelaus	55	13	49	32,7
leaves Proclus	20 7	5	10 1	22,7
at eastern edge of Mare Crisium	7	50	2	7,6
at the western edge of Mare Crisium	11	27	5	43,9
End of the Eclipse	13	20	7	36,5

The Moon clear,—but the Shadow ill defined.

23	5	20,8	10	6	36,0	7	49,0	41,08	1	2,65	- - -	☉ 1 L.
	7	31,0	10	8	46,7	9	58,0					☉ 2 L.
	-	-	17	20	31,7	22	0,2	- -	2	2,02	50 S	λ *Scorpionis.*
	27	36,0	17	29	10,0	30	40,8	10,01	2	2,1	52 S	κ *Scorpionis.*
	37	23,9	17	38	46,6	40	6,2	46,54	2	1,75	14¼ N	μ *Herculis.*
	49	57,6	17	51	54,3	53	48,5	54,64	2	2,03	38¼ S	γ *Draconis.*
	4	51,4	18	6	10,8	7	27,5	10,77	..	...	30½ S	♄ *Centrum.* 7h 59′ 37″,57 mean Time.
24	9	1,0	10	10	15,5	11	28,0	20,56	..	...	- - -	☉ 1 L.
	11	10,4	10	12	25,5	13	38,0					☉ 2 L.
	47	9,0	16	48	23,4	49	34,8	23,27	4	2,53	3¾ S	κ *Ophiuchi.*
	57	57,3	16	59	14,0	0	27,0	13,73	4	2,29	28¼ S	ψ *Ophiuchi.*
	7	2,6	17	9	14,0	11	21,4	14,1	..	...	68½ S	β *Arae.*
	18	58,2	17	20	29,8	21	58,2	29,5	1	2,20	50 S	λ *Scorpionis.*
	27	33,7	17	29	7,8	30	38,8	7,83	1	2,17	52 S	κ *Scorpionis.*
	-	-	17	38	44,3	40	4,0	44,05	1	2,25	14¼ N	μ *Herculis.*
	4	45,0	18	6	4,4	7	20,6	4,30	..	...	26 S	♄ *Centrum.* 7h 55′ 36″,46 mean Time.
26	16	17,0	10	17	32,4	18	44,4	37,1	1	2,4	- - -	☉ 1 L.
	18	27,0	10	19	41,8	20	54,0					☉ 2 L.
	57	54,0	16	59	10,0	0	23,4	10,01	1	2,3	28¾ S	ψ *Ophiuchi.*
	18	53,8	17	20	25,6	21	54,0	25,5	1	2,06	50 S	λ *Scorpionis.*
	49	50,4	17	51	48,6	53	42,0	48,41	1	2,16	38¾ N	γ *Draconis.*
	4	31,8	18	5	50,7	7	7,7	50,92	..	...	30¾ S	♄ *Centrum.* 7h 47′ 35″,65 mean Time.
	14	35,4	18	15	56,7	17	13,5	- -	1	2,43	38¼ S	λ *Sagittarii.*
	28	34,6	18	30*	8,7	-	-	- -	1	2,2	25¼ N	α *Lyrae.*
	-	-	18	43	10,4	44	29,5	- -	..	...	39¼ S	σ *Sagittarii.*
	48	49,0	18	50	12,7	51	34,5	12,97	..	...	43¼ S	ζ *Sagittarii.*
27	19	56,0	10	21	10,7	22	21,8	15,33	1	1,37	- - -	☉ 1 L.
	22	6,0	10	23	20,0	24	32,5					☉ 2 L.
	18	52,0	17	20	23,8	21	52,0	23,71	..	...	52 S	λ *Scorpionis.*
	27	28,4	17	29	2,0	30	33,0	2,30	1	1,87	50 S	κ *Scorpionis.*
	37	15,5	17	38	38,4	39	58,5	38,56	..	...	14¼ N	μ *Herculis.*
	14	33,4	18	15	54,3	17	11,5	54,07	1	2,13	38¼ S	λ *Sagittarii.*
	28	33,0	18	30	7,0	31	37,4	6,91	..	...	25¼ N	α *Lyrae.*
	41	46,8	18	43	8,5	44	27,4	8,52	1	1,9	39¼ S	σ *Sagittarii.*
28	23	33,0	10	24	48,5	26	0,7	53,01	1	1,62	- - -	☉ 1 L.
	25	43,0	10	26	57,8	28	9,8					☉ 2 L.
	-	-	18	30	5,5	31	55,5	5,15	..	...	25¾ N	α *Lyrae.*
	41	45,4	18	43	7,3	44	26,0	7,23	..	...	39¾ S	σ *Sagittarii.*
	56	47,4	18	58	5,8	59	21,6	5,89	..	...	34¼ S	π *Sagittarii.*
29	27	11,0	10	28	25,4	29	37,0	29,96	1	1,95	- - -	☉ 1 L.
	29	20,5	10	30	34,6	31	46,0					☉ 2 L.
30	30	47,0	10	32	1,8	33	13,0	6,21	..	...	- - -	☉ 1 L.
	32	56,4	10	34	11,0	35	22,8					☉ 2 L.

In the YEAR M.DCCCXII.

DAY OF THE MONTH.	I. Wire. M S	MERIDIAN. H M S	III. Wire. M S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names* or *Characters* of the STARS AND PLANETS.
AUGUST 30	Wound up the Clock: Arc of Vibration 1°: 44′.							
31	34 24,0	10 35 38,6	36 51,0	43,18	1	1,33	- - -	⊙ 1 L.
	36 33,4	10 37 47,3	38 59,5					⊙ 2 L.
	28 26,8	18 - -	31 30,4	- -	4	1,65	25¼ N	*α Lyræ.*
	41 39,6	18 43 1,4	44 20,5	1,44	3	1,91	39¼ S	*σ Sagittarii.*
SEPT. 1	Cloudy day.							
2	41 36,0	10 42 50,5	44 0,5	54,24	2	2,17	- - -	⊙ 1 L.
	43 45,4	10 44 57,8	46 10,0					⊙ 2 L.
	28 21,8	18 29 55,0	31 25,0	55,03	2	2,6	25½ N	*α Lyræ.*
	41 34,8	18 42 57,0	44 15,8	56,87	2	2,31	39¼ S	*σ Sagittarii.*
3	45 10,4	10 46 25,4	47 37,0	29,39	1	2,35	- - -	⊙ 1 L.
	47 21,0	10 48 34,4	49 45,5					⊙ 2 L.
4	- -	10 49 58,0	51 12,4	5,22	1	1,37	- - -	⊙ 1 L.
	50 55,4	10 52 10,8	53 20,5					⊙ 2 L.
5	52 21,4	10 53 36,0	54 48,0	40,26	1	1,96	- - -	⊙ 1 L.
	54 31,0	10 55 44,0	56 55,3					⊙ 2 L.
7	59 30,4	11 0 45,5	1 56,2	49,31	2	2,08	- - -	⊙ 1 L.
	1 40,0	11 2 54,0	4 4,5					⊙ 2 L.
8	3 6,4	11 4 20,0	5 31,0	24,18	1	1,53	- - -	⊙ 1 L.
	5 14,4	11 6 28,0	7 40,0					⊙ 2 L.
9	6 39,5	11 7 54,0	- -	57,82	1	2,46	- - -	⊙ 1 L.
	- -	11 10 2,0	11 13,5					⊙ 2 L.
10	- -	19 22 13,8	23 33,0	13,62	..	...	14½ N	*β Cygni.*
	36 23,4	19 38 11,3	39 50,0	11,15	..	...	31½ N	*δ Cygni.*
	59 27,6	20 0 41,4	1 51,4	- -	..	...	14½ S	*θ Antin.*
	5 26,4	20 6 41,5	7 54,4	- -	..	...	20½ S	*α Capricorni.*
11	13 49,0	11 15 3,2	16 14,5	6,99	..	...	- - -	⊙ 1 L.
	15 57,0	11 17 10,7	18 22,3					⊙ 2 L.
	3 48,4	18 5 7,3	6 23,0	7,20	..	...	36½ S	♄ *Centrum.* 6h 44′ 28″,20 mean Time.
	14 4,0	18 15 24,8	16 43,3	24,94	..	...	38½ S	*λ Sagittarii.*
	28 3,4	18 29 37,2	31 8,0	37,98	15	1,97	25½ N	*α Lyræ.*
	48 17,5	18 49 41,8	51 3,5	41,90	15	1,97	43¾ S	*ζ Sagittarii.*
	55 19,4	18 57 38,0	58 53,8	37,97	..	...	34½ S	*π Sagittarii.*
	20 49,0	19 22 11,4	23 31,3	11,42	1	2,05	14½ N	*β Cygni.*
	36 26,3	19 38 9,8	39 49,0	9,55	..	...	31½ N	*δ Cygni.*
	43 54,3	19 45 8,0	46 19,0	7,97	..	...	7½ S	*β Aquilæ.*
12	17 22,8	11 18 36,5	19 47,4	40,35	1	2,44	- - -	⊙ 1 L.
	19 31,4	11 20 45,0	21 53,4					⊙ 2 L.
13	20 55,7	11 22 10,0	23 20,6	13,86	1	2,09	- - -	⊙ 1 L.
	23 4,4	11 24 18,0	25 29,2					⊙ 2 L.
14	24 38,5	11 25 43,6	26 51,4	47,41	1	1,95	- - -	⊙ 1 L.
	26 37,5	11 27 52,2	29 3,0					⊙ 2 L.
	IMMERSION of JUPITER's *first* Satellite. Time by Clock (S.) 3h 43′ 35″. Mean Time 16h 9′ 32″,88. Planet at a convenient altitude: Clear: Observation good.							
15	28 2,4	11 29 16,3	30 27,1	20,69	1	2,22	- - -	⊙ 1 L.
	30 11,5	11 31 25,7	32 35,6					⊙ 2 L.

In the YEAR M.DCCCXII.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names* or *Characters* of the STARS AND PLANETS.
SEPT. 16	31	37,2	11	33	50,0	34	1,8	54,34	1	1,85	- - -	☉ 1 L.
	38	44,6	11	34	57,7	36	9,5					☉ 2 L.
	41	40,0	19	42	59,3	44	16,0	59,38	..	...	- - -	☽ 1 L. 8h 2′ 35″,42 mean Time.
17	35	10,3	11	36	24,0	37	34,5	27,8	1	1,8	- - -	☉ 1 L.
	37	18,5	11	38	31,0	39	43,0					☉ 2 L.
	-	-	18	5	18,3	6	35,0	- -	..	...	36½ S	♄ *Centrum*. 6h 21′ 16″,28 mean Time.
	-	-	18	15	13,0	16	31,5	18,18	6	1,97	38½ S	λ *Sagittarii*.
	27	51,5	18	29	25,4	30	55,7	25,33	6	2,0	25½ N	α *Lyræ*.
	41	5,6	18	42	27,6	43	46,7	27,60	6	2,03	39½ S	σ *Sagittarii*.
	48	5,4	18	49	30,0	50	50,3	- -	6	1,99	45½ S	ζ *Sagittarii*.
	56	7,7	18	57	26,0	58	41,0	25,84	6	2,03	54½ S	π *Sagittarii*.
	20	37,9	19	21	59,4	23	20,0	59,67	6	1,95	14½ N	β *Cygni*.
	36	14,4	19	37	57,0	39	36,7	- -	6	2,05	31½ N	δ *Cygni*.
	43	42,2	19	44	55,8	46	7,6	56,0	6	1,99	7½ S	β *Aquilæ*.
18	38	44,2	11	39	57,0	41	8,2	1,91	1	1,89	- - -	☉ 1 L.
	40	59,0	11	42	5,0	43	16,4					☉ 2 L.
	27	49,4	18	29	23,3	30	54,0	23,33	1	1,97	25½ N	α *Lyræ*.
	20	55,2	19	21	57,3	23	17,5	57,55	1	2,23	14½ N	β *Cygni*.
	36	12,2	19	37	55,0	39	34,4	54,95	1	2,17	31½ N	δ *Cygni*.
	43	40,3	19	44	54,2	-	-	54,09	1	1,8	7½ S	β *Aquilæ*.
	32	8,0	20	33	51,3	35	30,2	51,28	..	...	31½ N	α *Cygni*.
19	42	16,8	11	43	30,3	44	41,4	34,65	1	2,06	- - -	☉ 1 L.
	44	25,0	11	45	39,2	46	50,0					☉ 2 L.
	-	-	18	15	8,8	16	27,2	8,84	2	2,13	38½ S	λ *Sagittarii*.
	27	47,2	18	29	21,3	30	51,8	21,23	1	2,2	25½ N	α *Lyræ*.
	32	6,0	20	33	49,2	35	28,2	49,05	1	2,03	31½ N	α *Cygni*.
20	15	50,4	11	47	3,6	48	14,8	8,0	1	2,05	- - -	☉ 1 L.
	47	59,0	11	49	12,0	50	23,0					☉ 2 L.
	-	-	18	42	21,0	43	40,0	- -	1	2,38	39½ S	σ *Sagittarii*.
	20	30,8	19	21	53,4	23	13,6	53,25	2	2,21	14½ N	β *Cygni*.
	43	35,4	19	44	49,5	46	0,5	49,37	2	2,4	7½ S	β *Aquilæ*.
	6	37,0	20	8	24,5	10	8,4	24,70	..	...	31½ N	ο *Cygni*.
	12	38,5	20	14	14,2	15	46,0	14,05	..	...	26½ N	γ *Cygni*.
21	49	22,5	11	50	36,6	51	48,4	41,03	1	2,47	- - -	☉ 1 L.
	51	31,5	11	52	45,3	-	-					☉ 2 L.
	Wound up the Clock: Arc of Vibration 1°: 45′.											
	27	42,3	18	29	16,3	-	-	16,19	2	2,48	25½ N	α *Lyræ*.
	47	56,4	18	49	20,4	50	42,0	20,57	4	2,33	43½ S	ζ *Sagittarii*.
	36	5,5	19	37	48,2	39	27,4	48,23	3	2,31	31½ N	δ *Cygni*.
	6	34,4	20	8	22,5	10	6,0	22,46	1	2,33	24½ N	ο *Cygni*.
	12	36,0	20	14	11,4	-	-	- -	..	...	25½ N	γ *Cygni*.
	32	1,0	20	33	44,0	35	23,4	44,0	2	2,52	51½ N	α *Cygni*.
	Examined the Line of Collimation and Meridian adjustment,—found both right.											
22	52	55,5	11	54	9,4	55	20,5	13,63	1	3,05	- - -	☉ 1 L.
	55	4,6	11	-	-	-	-					☉ 2 L.
	27	40,2	18	29	14,3	30	43,4	14,0	1	2,05	25½ N	α *Lyræ*.
	40	53,6	18	42	15,3	43	34,6	15,42	5	2,44	39½ S	σ *Sagittarii*.
	47	54,0	18	-	-	50	46,0	18,50	1	2,2	43½ S	ζ *Sagittarii*.
	20	25,0	19	21	47,6	23	7,4	47,63	2	2,81	14½ N	β *Cygni*.
	36	3,0	19	37	45,5	39	25,0	45,65	1	2,53	31½ N	δ *Cygni*.
	43	30,0	19	44	44,7	45	55,0	43,80	..	...	7½ S	β *Aquilæ*.
	6	32,3	20	8	19,7	10	3,6	19,98	1	2,43	24½ N	ο *Cygni*.
	12	33,4	20	14	8,6	15	40,4	8,57	..	...	26½ N	γ *Cygni*.
	31	58,5	20	33	41,4	35	21,0	41,48	1	2,5	31½ N	α *Cygni*.

In the YEAR M.DCCCXII.

DAY of the MONTH.	I. Wire. M	S	Meridian. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
Sept. 23	56	29,4	11	57	43,0	58	51,6	46,96	1	2,36	- - -	☉ 1 L.
	53	37,0	11	59	51,4	1	1,8					☉ 2 L.
	40	51,9	18	42	15,0	.	.	. .	1	2,45	89½ S	σ *Sagittarii.*
	47	51,5	18	49	15,4	50	37,3	15,65	1	2,6	43½ S	ζ *Sagittarii.*
	55	53,5	18	57	12,4	58	27,8	12,22	6	2,37	34½ S	τ *Sagittarii.*
	8	5,5	19	9	22,5	10	37,0	- -	. .	. . .	31½ S	ρ *Sagittarii.*
	20	23,0	19	-	-	23	5,0	- -	1	2,2	14½ N	β *Cygni.*
	33	59,6	19	40	14,0	41	25,0	13,80	. .	. . .	4½ S	α *Aquilæ.*
	6	29,4	20	8	17,2	10	1,0	17,31	1	2,67	34½ N	ο *Cygni.*
	12	31,0	20	14	6,0	15	38,0	6,08	1	2,47	26½ N	γ *Cygni.*
	31	56,0	20	33	39,3	35	18,4	39,15	1	2,4	31½ N	α *Cygni.*
24	0	2,5	12	1	16,4	2	27,0	20,40	1	2,36	- - -	☉ 1 L.
	2	11,2	12	3	24,6	4	35,5					☉ 2 L.
	40	48,4	18	42	10,5	43	29,0	10,32	1	2,55	39½ S	σ *Sagittarii.*
	47	48,6	18	49	13,0	50	35,0	13,15	1	2,53	43½ S	ζ *Sagittarii.*
	55	51,0	18	57	10,0	58	25,5	9,82	1	2,4	34½ S	τ *Sagittarii.*
	8	3,0	19	9	20,5	-	-	- -	1	2,25	31½ S	ρ *Sagittarii.*
	38	56,8	19	40	11,8	41	22,5	- -	1	2,57	4½ S	α *Aquilæ.*
	43	25,7	19	44	39,0	45	50,0	39,07	2	2,5	7½ S	β *Aquilæ.*
	6	27,0	20	8	15,0	9	58,4	14,96	1	2,4	34½ N	ο *Cygni.*
25	3	35,5	12	4	49,4	6	0,5	53,78	1	2,67	- - -	☉ 1 L.
	5	44,5	12	6	58,3	8	9,0					☉ 2 L.
	38	51,6	19	-	-	41	17,0	5,61	2	2,85	4½ S	α *Aquilæ.*
	43	20,0	19	44	34,3	45	45,0	34,05	2	2,56	7½ S	β *Aquilæ.*
	6	21,4	20	8	9,6	9	53,4	- -	2	2,66	34½ N	ο *Cygni.*
	12	23,6	20	13	59,0	15	30,5	56,86	2	2,43	26½ N	γ *Cygni.*
	31	48,4	20	33	31,2	35	10,4	31,28	2	2,63	31½ N	α *Cygni.*
26	7	9.4	12	8	28,0	9	34,3	27,26	1	2,67	- - -	☉ 1 L.
	9	18,0	12	10	31,2	11	42,5					☉ 2 L.
27	10	42,5	12	11	56,4	13	7,4	0,51	. .	. . .	- - -	☉ 1 L.
	12	51,2	12	14	5,6	15	16,0					☉ 2 L.
			Examined the Line of Collimation and Meridian adjustment,—found both right.									
28	14	17,0	12	15	30,6	16	41,6	34,65	1	2,56	- - -	☉ 1 L.
	16	25,0	12	17	39,5	18	49,6					☉ 2 L.
	55	39,3	18	56	58,0	58	13,4	57,87	4	2,98	34½ S	τ *Sagittarii.*
	7	52,0	19	9	20,3	10	45,0	- -	. .	. . .	29½ S	υ *Sagittarii.*
	13	10,8	19	14	24,0	15	35,5	24,22	. .	. . .	10½ S	δ *Antin.*
	20	9.3	19	21	31,5	22	51,3	31,68	6	2,67	14½ N	β *Cygni.*
	38	46,0	19	40	0,0	41	11,3	59,98	2	2,82	4½ S	α *Aquilæ.*
	43	14,4	19	44	28,0	45	39,5	28,25	2	2,95	7½ S	β *Aquilæ.*
	6	15,6	20	8	3,5	9	47,6	3,66	2	2,95	34½ N	ο *Cygni.*
	12	18,0	20	-	-	15	24,4	- -	2	2,93	26½ N	γ *Cygni.*
	-	-	20	33	25,6	35	4,2	- -	2	2,8	31½ N	α *Cygni.*
29	17	50,5	12	19	4,0	20	15,2	8,43	1	3,12	- - -	☉ 1 L.
	19	59,0	12	21	13,6	22	23,0					☉ 2 L.
	47	34,3	18	48	59,0	50	20,0	58,82	5	2,89	43½ S	ζ *Sagittarii.*
	55	36,5	18	56	55,4	58	11,0	55,27	1	2,6	34½ S	τ *Sagittarii.*
	20	6,5	19	21	29,5	22	48,6	29,25	1	2,5	14½ N	β *Cygni.*
	-	-	19	39	57,0	41	8,8	57,35	1	2,6	4½ S	α *Aquilæ.*
	13	11,8	19	44	25,5	45	36,6	25,50	1	2,67	7½ S	β *Aquilæ.*
	6	13,5	20	-	-	9	44,8	- -	1	2,69	34½ N	ο *Cygni.*
	31	39,4	20	33	22,6	35	2,0	22,55	1	2,6	31½ N	α *Cygni.*
30	21	24,4	12	22	38,2	23	49,0	42,55	1	3,08	- - -	☉ 1 L.
	23	33,0	12	24	47,0	25	58,5					☉ 2 L.
October 1	24	59,5	12	26	13,0	27	24,2	17,41	1	2,54	- - -	☉ 1 L.
	27	8,0	12	28	22,0	29	32,6					☉ 2 L.
	20	1,6	19	21	24,0	22	43,2	23,08	2	2,64	14½ N	β *Cygni.*

In the YEAR M.DCCCXII.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	Names or Characters of the STARS AND PLANETS.
OCTOBER 1	38	37,6	19	39	52,0	41	4,0	52,05	2	2,65	4½ S	*α Aquilæ.*
	-	-	19	44	20,4	45	31,3	26,31	2	2,6	7½ S	*β Aquilæ.*
	31	34,5	20	33	17,3	34	57,0	17,43	2	2,54	31½ N	*α Cygni.*
2	28	31,4	19	29	48,0	30	59,5					
	30	43,0	19	31	57,2	33	8,0	52,55	1	2,64	- - -	⊙ 2 L.
	13	0,6	19	14	13,5	15	24,4	- -	4	2,65	10½ S	*δ Antinoi.*
	-	-	19	21	21,0	22	40,5	20,92	1	2,85	14½ N	*β Cygni.*
	38	35,6	19	-	-	41	1,2	- -	1	2,4	4½ S	*α Aquilæ.*
	31	31,6	20	33	14,5	34	54,2	14,60	1	2,83	31½ N	*α Cygni.*
	1	45,0	21	3	9,0	4	30,0	8,99	..	....	16½ N	*ζ Cygni.*
	9	44,5	21	12	19,6	14	48,7	19,47	..	....	48½ N	*α Cephei.*
3	32	10,0	19	33	23,3	34	34,5					
	34	18,5	19	35	32,3	36	43,2	27,83	1	2,82	- - -	⊙ 1 L.
	38	32,5	19	39	46,0	40	58,6	- -	1	2,85	4½ S	⊙ 2 L.
	43	1,0	19	44	15,0	45	26,5	15,10	2	2,55	7½ S	*α Aquilæ.*
	6	2,4	20	7	51,3	9	34,4	- -	4	2,81	34½ N	*β Aquilæ.*
	12	4,5	20	13	39,6	15	11,4	39,61	..	....	26½ N	*o Cygni.*
	31	20,2	20	33	12,0	34	51,6	12,20	1	2,57	31½ N	*γ Cygni.*
	1	42,5	21	3	6,5	4	28,0	6,62	1	2,33	16½ N	*α Cygni.*
	9	41,8	21	12	16,7	14	46,0	16,67	1	2,77	48½ N	*ζ Cygni.*
	31	53,2	21	33	7,5	34	19,0	7,45	..	....	4½ S	*α Cephei.*
	39	7,5	21	40	41,0	42	11,4	41,07	..	....	51½ S	*ε Pegasi.*
												γ Gruis.
4	35	45,4	19	36	59,0	38	10,7					
	37	55,0	19	39	8,0	40	19,8	3,85	1	2,38	- - -	⊙ 1 L.
	-	-	19	14	9,4	15	19,0	- -	2	2,17	10½ S	⊙ 2 L.
	-	-	19	21	16,0	22	35,8	16,07	2	2,42	14½ N	*δ Antinoi.*
	38	30,0	19	39	44,0	40	55,8	44,10	1	2,37	4½ S	*β Cygni.*
	-	-	19	44	12,5	45	23,7	12,56	1	2,65	7½ S	*α Aquilæ.*
	6	0,0	20	-	-	9	32,4	- -	1	2,2	34½ N	*β Aquilæ.*
	-	-	20	13	37,0	15	9,0	- -	1	2,5	26½ N	*o Cygni.*
	31	27,0	20	33	10,0	34	49,0	9,90	1	2,27	31½ N	*γ Cygni.*
	1	40,0	21	3	4,3	4	25,3	4,22	1	2,47	16½ N	*α Cygni.*
	9	39,4	21	12	14,7	14	44,0	14,57	1	2,13	48½ N	*ζ Cygni.*
	31	51,0	21	33	5,3	-	-	- -	1	2,0	4½ S	*α Cephei.*
	39	5,5	21	40	39,0	42	9,0	38,97	1	2,13	51½ S	*ε Pegasi.*
												γ Gruis.
	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.											
5	39	19,4	12	40	53,5	41	44,8					
	41	30,0	19	42	44,4	43	55,0	38,71	..	....	- - -	⊙ 1 L.
	38	28,0	19	39	42,0	40	53,5	42,03	1	2,1	4½ S	⊙ 2 L.
	-	-	19	44	10,0	45	21,2	10,06	1	2,5	7½ S	*α Aquilæ.*
	11	59,4	20	13	34,3	15	6,4	34,44	1	2,65	26½ N	*β Aquilæ.*
	31	25,0	20	33	7,4	34	46,3	7,43	1	2,43	31½ N	*γ Cygni.*
	1	37,4	21	3	2,0	4	22,7	- -	1	2,5	16½ N	*α Cygni.*
	31	48,8	21	33	2,6	34	11,3	2,73	1	2,45	4½ S	*ζ Cygni.*
	39	3,5	21	40	36,4	42	6,3	36,49	1	2,43	51½ S	*ε Pegasi.*
												γ Gruis.
6	42	58,5	12	44	12,6	45	23,7					
	45	7,5	12	46	21,4	47	32,5	16,90	..	....	- - -	⊙ 1 L.
	-	-	19	39	39,3	40	51,8	- -	1	2,7	4½ S	⊙ 2 L.
	42	53,4	19	44	7,3	-	-	7,19	1	2,7	7½ S	*α Aquilæ.*
	31	22,5	20	33	5,0	34	44,2	5,08	1	2,33	31½ N	*β Aquilæ.*
	-	-	21	3	0,0	4	20,2	- -	1	2,25	16½ N	*α Cygni.*
	31	46,2	21	33	0,0	34	11,5	0,08	1	2,67	4½ S	*ζ Cygni.*
	39	1,0	21	40	34,3	42	4,3	34,32	1	2,2	51½ S	*ε Pegasi.*
												γ Gruis.
7	46	36,0	12	47	49,6	49	1,5					
	48	45,0	12	49	58,0	-	-	54,03	1	2,47	- - -	⊙ 1 L.
	-	-	19	39	37,5	40	48,4	37,22	1	2,1	4½ S	⊙ 2 L.
	-	-	20	13	30,0	15	2,0	- -	2	2,17	26½ N	*α Aquilæ.*
	-	-	20	36	37,5	38	2,4	- -	..	....	20½ N	*γ Cygni.*
												ε Cygni.

In the YEAR M.DCCCXII.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires S	No. of Days	Rate of Clock.	Zenith Distance.	*Names* or *Characters* of the STARS AND PLANETS.
OCTOBER 7	IMMERSION of JUPITER's *first* Satellite. Time by Clock (S.) 5h 22′ 50″. Mean Time 16h 19′ 9″,65. Planet high and clear: Observation satisfactory.											
8	30	13,4	12	51	27,0	52	39,0	32,2	1	1,73	- - -	⊙ 1 L.
	32	25,0	12	53	36,0	54	48,2					⊙ 2 L.
	33	22,3	19	39	35,4	40	47,0	35,63	1	1,75	4½ S	α *Aquilæ*.
	IMMERSION of a TELESCOPIC STAR behind the dark Limb of the ☽. Time by Clock (S.) 7h 39′ 3″. Apparent Time 6h 45′ 23″,5. Flying Clouds: Observation certain to 2 seconds.											
	11	53,5	*20	13	28,7	15	1,0	- -	..	. . .	26¾ N	γ *Cygni*.
	31	18,5	*20	33	2,0	-	-	- -	2	2,0	31½ N	α *Cygni*.
9	53	51,4	12	55	5,5	56	17,4	10,51	1	2,11	- - -	⊙ 1 L.
	56	1,3	12	57	15,7	58	26,6					⊙ 2 L.
	-	-	19	39	33,4	40	45,3	- -	1	1,85	4½ S	α *Aquilæ*.
	42	48,4	19	44	1,5	45	12,5	1,62	3	1,8	7½ S	β *Aquilæ*.
	11	51,7	*20	13	24,6	14	58,7	- -	..	. . .	26½ N	γ *Cygni*.
	31	16,6	*20	32	58,0	34	38,8	- -	..	. . .	31½ N	α *Cygni*.
	-	-	20	36	33,3	37	58,4	- -	2	2,05	20½ N	ε *Cygni*.
	1	29,4	21	2	54,4	4	15,0	- -	3	1,8	16½ N	ζ *Cygni*.
	9	28,0	21	12	3,5	14	33,0	3,37	5	2,22	48½ N	α *Cephei*.
10	A. M. The Eastern end of the Axis appearing about 0″,9 too high,—lowered it.											
	57	30,7	12	58	44,5	59	55,7	49,70	1	2,11	- - -	⊙ 1 L.
	59	40,5	*13	0	55,0	2	6,6					⊙ 2 L.
	Western end 0″,45 too high,—lowered it.											
	42	45,4	19	43	59,0	45	10,3	59,07	..	. . .	7½ S	β *Aquilæ*.
	-	-	20	7	34,0	9	18,2	- -	..	. . .	24½ N	ο *Cygni*.
	11	48,4	20	13	23,4	14	55,5	23,51	..	. . .	26½ N	γ *Cygni*.
12	Wound up the Clock: Arc of Vibration 1°: 44′.											
14	-	-	13	13	23,4	14	35,4	28,62	..	. . .	- - -	⊙ 1 L.
	14	19,3	13	15	33,8	16	45,5					⊙ 2 L.
	11	40,4	20	13	16,0	14	47,6	15,84	4	4,95	26½ N	γ *Cygni*.
	31	5,5	20	32	48,7	34	28,0	48,56	..	. . .	31½ N	α *Cygni*.
	1	19,3	21	2	43,8	4	4,5	43,59	..	. . .	16½ N	ζ *Cygni*.
	9	19,0	21	11	53,5	14	22,5	53,50	..	. . .	48½ N	α *Cephei*.
15	-	-	13	17	4,5	18	16,0	9,47	1	2,35	- - -	⊙ 1 L.
	18	0,4	13	19	14,4	20	26,0					⊙ 2 L.
	38	6,5	19	39	20,4	40	32,4	20,58	6	2,16	4½ N	α *Aquilæ*.
	-	-	19	43	48,7	44	59,0	- -	5	2,16	7½ N	β *Aquilæ*.
	11	38,2	20	13	13,5	14	45,4	13,49	1	2,3	26½ N	γ *Cygni*.
	31	2,8	20	32	46,2	34	25,3	46,03	1	2,37	31½ N	α *Cygni*.
	1	16,6	21	-	-	4	2,3	- -	1	2,45	16½ N	ζ *Cygni*.
	10	52,6	21	-	-	13	24,4	- -	..	. . .	28½ S	☽ 1 L. 7h 38′ 38″,36 mean Time.
18	-	-	13	28	9,5	29	20,5	14,28	..	. . .	- - -	⊙ 1 L.
	29	5,5	13	30	19,0	31	31,6					⊙ 2 L.

In the YEAR M.DCCCXII.

DAY of the MONTH.	I. Wire.	MERIDIAN.			III. Wire.		Reduction of Wires.	No. of Days	Rate of Clock.	Zenith Distance.	*Names* or *Characters* of the STARS AND PLANETS.
	M S	H	M	S	M	S	S				
Oct. 18	Examined the Line of Collimation and Meridian adjustment,—found both right.										
22	41 51,0	13	43	6,5	44	19,4					
	44 4,5	13	45	18,2	46	30,5	12,21	..	. . .	- - -	⊙ 1 L.
	11 22,4	20	12	58,5	14	30,0	58,18	7	2,2	26½ N	⊙ 2 L.
	30 48,0	20	32	31,2	34	10,4	31,10	7	2,13	31½ N	γ *Cygni.*
	1 1,5	21	2	26,8	3	47,0	26,02	7	2,17	16½ N	α *Cygni.*
	9 0,6	21	11	55,5	14	5,0	35,55	8	2,25	45½ N	ζ *Cygni.*
											α *Cephei.*
23	45 36,5	13	46	52,0	48	4,4					
	47 49,0	13	49	8,8	50	16,0	57,83	1	2,58	- - -	⊙ 1 L.
	30 45,2	20	32	28,5	34	7,6	28,35	1	2,77	31½ N	⊙ 2 L.
	0 59,0	21	2	23,4	3	44,4	23,29	1	2,67	16½ N	α *Cygni.*
	8 57,6	21	11	22,7	14	2,0	32,63	1	2,93	45½ N	ζ *Cygni.*
	31 10,0	21	32	24,3	33	35,5	24,18	18	2,14	4½ S	α *Cephei.*
	38 24,4	21	39	55,5	41	27,0	- -	18	2,16	51½ S	ε *Pegasi.*
	52 20,2	21	53	34,3	54	45,0	34,10	..	. . .	14½ S	γ *Gruis.*
	56 56,4	21	58	10,5	59	21,4	- -	..	. . .	8 S	α *Aquarii.*
											ϕ *Pegasi.*
	Immersion of Jupiter's *first* Satellite. Time by Clock (S.) 4h 38′ 50″. Mean Time 14h 32′ 56″,99. Planet low and covered with fog: the Observation not satisfactory.										
24	49 22,4	13	50	38,6	51	51,0					
	51 35,0	13	52	51,3	54	2,4	44,17	1	2,56	- - -	⊙ 1 L.
	- -	20	12	52,4	14	24,3	- -	..	. . .	26½ N	⊙ 2 L.
	30 43,0	20	32	23,4	34	5,0	25,52	1	2,63	31½ N	γ *Cygni.*
	0 56,4	21	2	20,5	3	42,0	20,59	1	2,63	16½ N	α *Cygni.*
	8 55,0	21	11	29,4	13	59,4	29,67	1	2,89	45½ N	ζ *Cygni.*
	31 7,3	21	32	21,6	33	33,0	21,53	1	2,63	4½ S	α *Cephei.*
	38 21,4	21	-	-	41	24,4	- -	1	2,8	51½ S	ε *Pegasi.*
	52 18,0	21	53	31,5	54	42,3	31,47	1	2,57	14½ S	γ *Gruis.*
	- -	21	58	7,4	59	18,3	- -	..	. . .	8 S	α *Aquarii.*
	26 58,0	22	28	47,4	30	33,0	- -	..	. . .	61 S	ϕ *Pegasi.*
	43 13,5	22	44	38,8	46	1,4	38,87	..	. . .	43 S	β *Gruis.*
											Fomalhaut.
25	53 9,0	13	54	24,3	55	37,3					
	55 21,5	13	56	37,0	57	49,4	30,63	..	. . .	- - -	⊙ 1 L.
											⊙ 2 L.
	At 7h A. M. Examined the Line of Collimation and Meridian adjustment,—found both right. Shortened the Pendulum 3 Divisions—and put the Clock on 3 minutes.										
26	1 54,0	14	3	8,5	4	20,5	2,3	..	. . .	- - -	⊙ 2 L.
	33 22,5	20	35	5,4	36	45,0	5,48	..	. . .	31½ N	α *Cygni.*
	3 36,5	21	5	0,4	6	22,0	0,57	..	. . .	16½ N	ζ *Cygni.*
	11 35,0	21	14	9,5	16	39,4	9,72	..	. . .	45½ N	α *Cephei.*
	20 29,4	21	21	43,5	22	54,0	43,25	..	. . .	19½ S	β *Aquarii.*
	41 2,0	21	-	-	14	5,0	- -	..	. . .	51½ S	ϕ *Gruis.*
27	3 32,5	14	4	48,0	6	1,5					
	5 45,5	-	-	-	8	14,5	- -	..	. . .	- - -	⊙ 1 L.
											⊙ 2 L.
	Axis right.										
	3 37,8	21	5	1,5	6	23,5	1,82	..	+ . . .	16½ N	ζ *Cygni.*
	11 35,6	21	14	10,0	16	40,4	- -	1	0,7	45½ N	α *Cephei.*
	20 30,3	21	21	44,4	22	55,5	44,30	1	0,77	19½ S	β *Aquarii.*
	33 48,3	21	35	2,4	36	13,3	2,25	..	. . .	4½ S	ε *Pegasi.*

In the YEAR M.DCCCXII.

DAY of the MONTH.	I. Wire. M	S	Meridian. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names* or *Characters* of the STARS AND PLANETS.
Oct. 27	41	2,4	21	42	36,0	14	6,0	35,94	1	+0,7	51½ S	*γ Gruis.*
	54	59,0	21	56	12,5	57	23,3	12,47	..	...	14½ S	*α Aquarii.*
	59	35,0	22	0	48,0	1	39,4	48,27	..	...	8 S	*β Pegasi.*
	29	39,5	22	31	29,0	33	14,3	- -	..	...	61 S	*β Gruis.*
	45	55,0	22	47	20,2	48	42,5	20,22	..	...	43½ S	*Fomalhaut.*
28	7	24,5	14	8	40,4	9	53,5					⊙ 1 L.
	9	38,3	*14	10	54,5	*12	6,6	- -	..	...	- - -	⊙ 2 L.
	Eastern end high 0',1.											
	20	31,5	21	21	45,5	22	56,4	45,37	1	+1,07	19¼ S	*β Aquarii.*
	33	49,0	21	35	3,4	36	15,0	3,35	1	1,13	4½ S	*ε Pegasi.*
	-	-	21	42	36,5	44	6,5	- -	1	0,5	51½ S	*γ Gruis.*
	55	0,0	21	56	13,3	57	24,0	13,3	1	1,83	14½ S	*α Aquarii.*
	59	35,5	22	0	49,0	2	0,0	- -	1	0,7	8 S	*β Pegasi.*
	45	55,4	22	47	20,7	48	43,0	20,7	1	0,47	43½ S	*Fomalhaut.*
29	-	-	14	12	34,0	13	46,4	40,31	..	...	- - -	⊙ 1 L.
	13	31,2	14	14	47,0	15	59,5					⊙ 2 L.
	11	37,4	21	14	12,0	-	-	- -	2	0,95	48½ N	*α Cephei.*
	-	-	21	42	37,3	44	7,0	37,10	1	0,65	51½ S	*γ Gruis.*
	55	0,4	21	56	14,0	57	25,0	14,0	1	0,7	14½ S	*α Aquarii.*
	59	36,2	22	0	50,0	2	0,7	- -	1	0,8	8 S	*β Pegasi.*
	Emersion of Jupiter's *third* Satellite. Time by Clock (8.) 4h 26′ 40″. Mean Time 13h 54′ 37″,44. Planet low and clouded the greater part of the time: it was clear, however, just at the above instant—when the Satellite was visible, but had been out probably several seconds.											
30	15	14,5	14	16	27,0	17	40,5	34,05	1	+0,34	- - -	⊙ 1 L.
	17	25,0	14	-	-	*19	54,0					⊙ 2 L.
	8	39,0	21	5	3,3	6	24,5	3,27	..	...	16½ N	*ζ Cygni.*
	11	38,0	21	14	12,4	16	42,0	12,55	1	0,5	48½ N	*α Cephei.*
	20	32,5	21	21	46,3	22	57,5	46,3	3	0,7	19½ S	*β Aquarii.*
	33	50,0	21	-	-	36	16,0	-	2	0,5	4½ S	*ε Pegasi.*
	11	4,0	21	42	37,5	44	7,4	37,44	1	0,3	51½ S	*γ Gruis.*
	55	1,0	21	56	14,3	57	25,5	14,42	1	0,47	14½ S	*α Aquarii.*
	59	36,6	22	0	50,5	2	1,0	50,32	1	0,4	8 S	*β Pegasi.*
	Immersion of Jupiter's *first* Satellite. Time by Clock (8.) 7h 3′ 30″. Mean Time 16h 27′ 5′,56. Planet high and very clear: ☽ up: Observation good.											
	31	55,0	11	33	8,8	34	20,0	- -	..	...	9½ S	♀ *Centrum.*
	38	21,0	11	39	35,2	40	47,0	- -	..	...	8½ S	☽ 1 L. 7h 38′ 33″,4 mean Time.
31	19	6,0	14	20	22,0	21	35,4	28,82	..	+	- - -	⊙ 1 L.
	21	19,5	14	22	35,0	23	48,4					⊙ 2 L.
	3	39,3	21	5	3,0	6	25,0	- -	1	0,37	16½ N	*ζ Cygni.*
	11	38,5	21	14	13,0	16	42,5	13,12	1	0,53	48½ N	*α Cephei.*
	20	32,8	21	21	47,0	22	58,0	46,80	1	0,50	19½ S	*β Aquarii.*
	33	50,3	21	35	5,0	36	16,0	4,73	1	0,15	4½ S	*ε Pegasi.*
	41	4,4	21	42	38,0	44	8,0	37,94	1	0,5	51½ S	*γ Gruis.*
	55	2,0	21	56	15,0	57	26,0	15,30	1	0,73	14½ S	*α Aquarii.*
	29	41,0	22	31	21,0	33	16,4	- -	4	0,47	61 S	*β Gruis.*
	45	57,3	22	47	22,0	48	45,3	- -	3	0,61	43½ S	*Fomalhaut.*
Nov. 1	-	-	14	24	17,0	25	30,2					⊙ 1 L.
	25	14,8	14	26	31,0	27	44,4	23,86	1	0,06	- - -	⊙ 2 L.

In the YEAR M.DCCCXII.

DAY of the MONTH.	I. Wire. M	S	Meridian. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS and PLANETS.
Nov. 1	11	38,8	21	14	13,4	16	43,0	13,55	1	0,4	48½ N	*α Cephei.*
	20	33,0	21	21	46,6	22	57,3	46,46	1	0,3	19½ S	*β Aquarii.*
	33	50,0	21	35	5,0	36	16,3	4,71	1	+	4½ S	*ε Pegasi.*
	41	4,7	21	42	38,4	44	8,4	38,31	1	0,37	51½ S	*γ Gruis.*
	55	2,2	21	56	15,3	57	26,0	15,96	1	0,25	14½ S	*α Aquarii.*
	At 6h A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.											
2	26	56,4	14	28	12,8	29	26,5	19,65	..	...	- - -	☉ 1 L.
	29	10,5	14	30	27,0	31	39,5					☉ 2 L.
	Wound up the Clock: Arc of Vibration 1°: 44′. The Clock stopt 5 or 6′ while winding up.											
	-	-	21	4	58,2	6	19,4	- -	..	...	16½ N	*ζ Cygni.*
	11	32,4	21	14	7,5	16	37,0	7,40	..	...	48½ N	*α Cephei.*
	33	44,8	21	34	59,0	36	10,6	59,07	..	...	4½ S	*ε Pegasi.*
	40	59,0	21	42	32,4	44	2,4	32,39	..	...	51½ S	*γ Gruis.*
	54	56,0	21	56	9,0	57	19,8	9,22	..	...	14½ S	*α Aquarii.*
	-	-	22	0	45,5	1	56,0	- -	..	...	8 S	*β Pegasi.*
	-	-	22	47	16,0	48	38,6	- -	..	...	43½ S	*Fomalhaut.*
3	30	47,5	14	32	3,0	33	17,6	10,65	..	+	- - -	☉ 1 L.
	33	2,5	14	34	18,0	35	31,4					☉ 2 L.
	3	34,3	21	4	58,4	6	20,0	58,44	1	0,4	16½ N	*ζ Cygni.*
	11	32,5	21	14	8,0	16	37,8	7,87	1	0,47	48½ N	*α Cephei.*
	20	28,0	21	21	40,5	22	52,8	40,74	1	0,57	19½ S	*β Aquarii.*
	33	45,0	21	34	59,5	36	11,0	59,43	1	0,37	4½ S	*ε Pegasi.*
	54	56,5	21	56	10,0	57	20,4	9,88	1	0,7	14½ S	*α Aquarii.*
	59	31,6	22	0	46,0	1	56,6	45,71	1	0,55	8 S	*β Pegasi.*
	29	36,4	22	31	26,0	33	11,8	26,07	..	...	61 S	*β Gruis.*
	45	51,5	22	47	17,0	48	39,0	16,89	1	0,7	43½ S	*Fomalhaut.*
4	34	43,5	4	36	0,5	37	14,2	7,93	1	—0,22	- - -	☉ 1 L.
	36	59,4	14	38	15,5	39	29,0					☉ 2 L.
	54	56,0	21	56	9,8	57	20,0	9,61	1	0,37	14½ S	*α Aquarii.*
	-	-	21	0	45,5	1	56,4	45,5	1	0,35	8 S	*β Pegasi.*
	Immersion of Jupiter's *second* Satellite. Time by Clock (S.) 4h 59′ 40″. Mean Time 14h 3′ 59″,53. Planet sufficiently high: Clear: Observation good.											
5	38	42,5	14	39	59,0	41	12,4	6,38	1	+ 0,05	- - -	☉ 1 L.
	40	57,5	14	42	13,6	43	27,8					☉ 2 L.
	40	59,4	21	42	32,8	44	3,0	32,84	..	...	51½ S	*γ Gruis.*
	54	56,6	21	56	10,0	57	20,3	9,88	..	...	14½ S	*α Aquarii.*
	59	32,0	22	0	45,8	1	57,0	45,80	1	0,2	8 S	*β Pegasi.*
	29	36,4	22	31	26,0	33	11,0	25,83	1	—0,27	61 S	*β Gruis.*
	45	51,5	22	47	17,0	48	39,4	16,99	1	+0,13	43½ S	*Fomalhaut.*
	Immersion of Jupiter's *third* Satellite. Time by Clock (S.) 5h 29′ 10″. Mean Time 14h 23′ 26″,21. Planet high: thin flying clouds: Observation not satisfactory.											
6	42	41,0	14	43	57,7	45	11,8	5,34	1	— 0,24	- - -	☉ 1 L.
	44	56,5	14	46	12,6	47	27,0					☉ 2 L.
	20	27,4	21	21	41,0	22	52,4	41,23	3	0,17	19½ S	*β Aquarii.*
	33	45,0	21	34	59,3	36	11,0	59,3	3	0,07	4½ S	*ε Pegasi.*

In the YEAR M.DCCCXII.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days.	Rate of Clock.	Zenith Distance.		Names or Characters of the STARS AND PLANETS.
Nov. 6	54	56,3	21	56	9,5	57	50,2	9,57	1	0,3	14½	S	*α Aquarii.*
	59	31,6	22	0	45,3	1	56,6	45,35	1	0,43	8	S	*θ Pegasi.*
	29	36,5	22	31	25,6	33	11,0	25,66	1	0,10	61	S	*β Gruis.*
	45	51,4	22	47	16,7	48	39,0	16,74	1	0,27	43¾	S	*Fomalhaut.*
7	46	40,3	14	47	57,0	49	11,0	4,76	1	0,58	-	- -	☉ 1 L.
	48	56,0	14	50	12,3	51	26,5						☉ 2 L.
	20	27,3	21	21	41,2	22	52,5	41,23	1	+0,07	19¾	S	*β Aquarii.*
	33	45,2	21	34	59,4	36	11,0	59,4	1	0,10	4½	S	*ε Pegasi.*
	40	59,0	21	42	32,2	44	2,4	32,33	1	—0,4	51½	S	*γ Gruis.*
	54	33,4	21	56	22,0	58	7,0	22,17	..	. . .	61	S	*α Gruis.*
	59	32,0	22	0	45,5	1	57,0	45,66	1	+0,33	8	S	*θ Pegasi.*
	17	58,0	22	19	11,0	20	21,7	11,16	..	. . .	14½	S	*ζ Aquarii.*
	24	32,0	22	25	44,5	26	55,0	44,74	..	. . .	14¾	S	*η Aquarii.*
	29	36,0	22	31	25,2	33	11,0	25,2	1	—0,3	61	S	*β Gruis.*
	45	51,9	22	47	17,0	48	39,2	16,89	1	+0,13	43½	S	*Fomalhaut.*
8	50	40,0	14	51	57,4	53	11,5	5,07	1	0,49	-	- -	☉ 1 L.
	52	56,5	14	54	12,3	55	27,2						☉ 2 L.
9	51	41,5	14	55	59,0	57	12,5	6,42	1	0,35	-	- -	☉ 1 L.
	56	57,5	14	58	14,0	59	28,5						☉ 2 L.
	33	41,5	21	34	59,0	36	10,0	58,81	1	—0,7	4½	S	*ε Pegasi.*
	54	32,0	21	56	21,0	58	6,4	21.17	..	. . .	61	S	*α Gruis.*
	59	31,5	22	0	45,0	1	56,0	44,98	1	0,73	8	S	*θ Pegasi.*
	17	58,0	22	19	11,0	20	21,4	11,09	1	0,1	14½	S	*ζ Aquarii.*
	24	30,6	22	25	43,2	26	54,0	43,41	..	. . .	14¾	S	*η Aquarii.*
	29	35,5	22	31	25,0	33	10,7	24,86	1	0,57	61	S	*β Gruis.*
	45	51,0	22	47	16,0	48	38,2	16,14	1	0,77	43¾	S	*Fomalhaut.*
	53	20,0	22	54	42,0	56	2,0	42,34	..	. . .	14	N	*β Pegasi.*

IMMERSION of a TELESCOPIC STAR in SAGITTARIUS, behind the ☽'s dark Limb.
Time by Clock (S.) 22h 37′ 51″. Apparent Time 7h 39′ 29″,0.
The ☽ high and clear : Observation certain.

IMMERSION of ρ SAGITTARII, behind the dark Limb of the ☽.
Time by Clock (S.) 23h 35′ 55″,5. Apparent Time 8h 37′ 24″,0.
☽ clear, and Observation certain to half a second.

10	58	43,5	15	0	1,0	1	15,0	8,80	1	0,12	-	- -	☉ 1 L.
	0	59,5	15	2	16,5	3	31,0						☉ 2 L.
	33	44,0	21	34	58,2	36	10,2	58,30	1	0,37	4½	S	*ε Pegasi.*
	40	58,0	21	42	31,0	44	2,0	31,34	3	0,29	51½	S	*γ Gruis.*
	54	31,4	21	56	21,0	58	6,4	20,93	1	0,20	61	S	*α Gruis.*
	59	30,5	22	0	44,0	1	55,5	44,22	..	. . .	8	S	*θ Pegasi.*
	17	58,0	22	19	10,5	20	21,0	10,74	1	0,3	14½	S	*ζ Aquarii.*
	45	50,0	22	47	16,0	48	38,2	15,82	1	0,33	43¾	S	*Fomalhaut.*
	53	20,0	22	54	42,5	56	2,0	42,46	1	+0,17	14	N	*β Pegasi.*
11	2	46,0	15	4	3,5	5	17,7	11,19	..	—	-	- -	☉ 1 L.
	5	2,2	15	6	19,0	7	33,2						☉ 2 L.
	33	44,0	21	34	58,3	36	10,0	58,31	1	0,03	4½	S	*ε Pegasi.*
	40	58,0	21	42	31,2	44	1,5	31,31	1	0,1	51½	S	*γ Gruis.*
	54	31,2	21	56	20,3	58	5,5	20,31	..	. . .	61	S	*α Gruis.*
	59	30,5	22	0	44,0	-	-	44,0	..	. . .	8	S	*θ Pegasi.*
	17	57,7	22	19	10,0	20	20,5	10,12	1	0.43	14½	S	*ζ Aquarii.*
	24	29,3	22	25	43,0	26	53,0	42,81	2	0,41	14¾	S	*η Aquarii.*
	29	35,0	22	31	24,5	33	10,0	24,48	2	0,17	61	S	*β Gruis.*
	53	20,0	22	54	42,0	56	1,5	42,23	1	0,17	14	N.	*β Pegasi.*

IMMERSION of JUPITER's *second* Satellite.
Time by Clock (S.) 8h 2′ 30″. Mean Time 16h 38′ 46″,31.
Planet near the Zenith : the position awkward : Clear,—and the Observation good.

In the YEAR M.DCCCXII.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.		Names or Characters of the STARS AND PLANETS.
Nov. 12	6	50,2	15	8	7,4	9	22,0	15,41	1	+ 0,02	-	- -	⊙ 1 L.
	9	6,0	15	10	23,6	11	37,7						⊙ 2 L.
	-	-	21	21	40,3	22	51,4	40,3	5	0,2	19½	S	β *Aquarii.*
	47	48,2	21	49	5,0	50	19,9	5,54	..	...	26½	S	☽ 1 L. 6h 23′ 6″,7 mean Time.
	54	31,3	21	-	-	58	6,0	20,62	1	0,2	61	S	α *Gruis.*
	29	35,0	22	-	-	33	9,4	24,17	1	−0,2	61	S	β *Gruis.*
13	10	53,5	15	12	11,5	13	26,5	19,71	..	...	-	- -	⊙ 1 L.
	13	10,2	15	14	28,0	15	43,0						⊙ 2 L.
15	19	6,0	15	20	23,0	21	39,4	31,94	1	— 0,58	-	- -	⊙ 1 L.
	21	22,2	15	22	40,5	23	55,0						⊙ 2 L.
	54	31,0	21	56	20,5	58	5,5	20,26	3	0,09	61	S	α *Gruis.*
	59	30,2	22	0	43,5	1	54,8	43,65	4	0,07	8	S	θ *Pegasi.*
	17	56,3	22	19	10,0	20	20,0	9,81	4	0,16	14½	S	ζ *Aquarii.*
	24	29,4	22	-	-	26	53,0	42,52	4	0,01	14½	S	η *Aquarii.*
	29	35,0	22	31	24,2	33	9,5	24.22	3	+0,01	61	S	β *Gruis.*
	45	50,0	22	47	15,4	48	37,3	15,29	..	...	45½	S	*Fomalhaut.*

Immersion of JUPITER's *first* Satellite.
Time by Clock (S.) 6h 21′ 25″. Mean Time 14h 42′ 15″,96.
Planet high,—but flying Clouds: Observation otherwise good.

A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.

16	23	13,0	15	24	30,5	25	46,0	39,31	1	— 0,13	-	- -	⊙ 1 L.
	25	30,0	15	26	47,5	28	5,3						⊙ 2 L.
	29	34,8	22	31	24,0	33	9,0	23,93	1	0.3	61	S	β *Gruis.*
	45	50,2	22	47	15,0	48	37,6	5,14	1	0.3	45½	S	*Fomalhaut.*
	53	19,3	22	54	42,0	56	1,0	41,81	5	0,08	14	N	β *Pegasi.*
17	27	20,4	15	28	39,0	29	54,0	47,5	1	0,15	-	- -	⊙ 1 L.
	29	38,4	15	30	56,4	32	11,2						⊙ 2 L.
	59	30,0	22	0	43,5	1	55,0	43,65	2	0,1	8	S	θ *Pegasi.*
	17	57,0	22	19	10,0	20	20,4	10,09	2	0,18	14½	S	ζ *Aquarii.*
	24	29,0	22	25	42,7	26	53,0	42,59	2	0,07	14½	S	η *Aquarii.*
	29	35,0	22	31	24,4	33	10,0	24,43	..	...	61	S	β *Gruis.*
	45	50,0	22	47	15,2	48	37,0	15,12	..	+	45½	S	*Fomalhaut.*
	53	19,5	22	54	42,0	56	1,0	41,86	1	0,07	14	N	β *Pegasi.*
	57	20,5	22	58	43,5	0	4,4	43,72	..	...	15	N	α *Andromeda.*
18	31	29,5	15	-	-	-	-	56,15	1	−0,45	-	- -	⊙ 1 L.
	33	48,5	15	-	-	36	20,0						⊙ 2 L.
	-	-	21	56	20,4	58	6,0	20,55	3	+0,07	61	S	α *Gruis.*
	59	30,0	22	0	44,0	1	55,0	43,90	1	0,17	8	S	θ *Pegasi.*
	17	56,4	22	19	10,0	20	20,0	9,84	1	−0,38	14½	S	ζ *Aquarii.*
	45	50,4	22	47	15,0	48	37,0	15,24	1	+0,07	45½	S	*Fomalhaut.*
	53	20,0	22	54	42,2	56	1,3	42,16	..	...	14	N	β *Pegasi.*
19	35	39,4	15	36	57,2	38	13,0	6,21	1	0,06	-	- -	⊙ 1 L.
	37	57,0	15	39	14,7	40	30,4						⊙ 2 L.

22 Immersion of JUPITER's *first* Satellite.
Time by Clock (S.) 8h 42′ 30″. Mean Time 16h 25′ 23″,14.
Planet in the Zenith, and near the ☽: Observation otherwise good.

Examined the Line of Collimation and Meridian adjustment,—found both right.

23	-	-	15	-	-	55	4,4	57,86	4	0,39	-	- -	⊙ 1 L.
	54	48,5	15	56	6,0	-	-						⊙ 2 L.

Wound up the Clock: Arc of Vibration 1°: 42′.

In the YEAR M.DCCCXII.

DAY. OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.		Names or Characters of the STARS AND PLANETS.
Nov. 24	58	24,0	22	51	46,2	56	6,0	46,34	6	+0,7	14	N	β *Pegasi.*
25	0	58,0	16	-	-	-	-	25,0	..	...	-	-	⊙ 1 L.
	-	-	16	-	-	5	52,0						☽ 2 L.
	45	54,0	22	47	19,2	48	42,8	19,44	1	0,63	43¼	S	*Fomalhaut.*
	57	25,0	23	58	48,0	0	9,0	48,5	8	0,57	15	N	α *Andromedæ.*
	2	25,0	0	3	40,2	4	53,4	- -	..	...	1	N	γ *Pegasi.*
26	5	14,4	16	6	32,4	7	48,6	42,38	..	...	-	-	⊙ 1 L.
	7	33,0	16	8	52,0	10	8,2						⊙ 2 L.
	29	39,0	22	31	29,0	33	14,3	23,81	9	0,48	61	S	β *Gruis.*
	45	54,4	22	47	20,0	48	42,4	19,97	1	0,43	43¼	S	*Fomalhaut.*
	53	24,3	22	54	47,0	56	6,4	46,91	1	0,5	14	N	β *Pegasi.*
	6	18,4	23	7	31,6	-	-	- -	..	...	12¾	S	γ *Piscium.*
	29	37,5	23	31	18,0	32	55,0	- -	..	...	30¼	N	κ *Andromedæ.*
	57	25,0	23	58	48,4	0	8,4	48,30	1	−0,07	15	N	α *Andromedæ.*
	2	25,0	0	3	41,0	4	54,0	40,91	1	+0,47	1	N	γ *Pegasi.*
	-	-	0	34	15,0	35	29,6	14,92	..	...	32¼	S	β *Ceti.*
27	9	30,4	16	10	49,5	12	5,4	50,08	1	0,40	-	-	⊙ 1 L.
	11	50,0	16	13	9,0	14	24,5						⊙ 2 L.
	57	25,0	23	58	49,0	0	9,0	48,70	1	0,4	15	N	α *Andromedæ.*
	2	20,0	0	3	40,5	4	54,0	41,40	1	0,47	1	N	γ *Pegasi.*
	32	58,2	0	34	15,0	35	30,0	15,22	1	0,13	32¼	S	β *Ceti.*
28	13	48,0	16	15	7,0	-	-	17,06	..	...	-	-	⊙ 1 L.
	-	-	16	17	27,0	18	43,3						⊙ 2 L.
29	-	-	16	-	-	-	-	34,9	1	0,06	-	-	⊙ 1 L.
	20	25,0	16	21	44,4	23	1,4						⊙ 2 L.
30	22	24,0	16	23	43,4	24	59,0	53,31	1	−0,09	-	-	⊙ 1 L.
	24	44,5	16	26	3,3	27	20,0						⊙ 2 L.
	-	-	22	54	48,0	56	7,7	48,34	4	+0,29	14	N	β *Pegasi.*
	6	20,0	23	7	33,2	8	43,3	33,08	4	0,40	13¼	S	γ *Piscium.*
	29	38,7	23	31	19,0	-	-	19,0	4	0,28	30¼	N	κ *Andromedæ.*
	57	26,4	23	58	49,5	0	10,0	49,60	3	0,46	15	N	α *Andromedæ.*
	2	26,3	0	3	41,6	4	55,6	41,77	3	0,32	1	N	γ *Pegasi.*
	32	59,0	0	34	16,0	35	31,0	16,17	3	0,40	32¼	S	β *Ceti.*
Dec. 1	26	42,4	16	28	2,4	29	18,5	12,95	1	−0,06	-	-	⊙ 1 L.
	29	3,5	16	30	22,6	31	39,0						⊙ 2 L.

IMMERSION of JUPITER's *first* Satellite.
Time by Clock (S.) 5h 39′ 45″. Mean Time 12h 57′ 42″,72.
Planet sufficiently high and clear: Observation not perfectly satisfactory.

2	31	3,0	16	32	22,7	33	30,8	33,05	1	0,8	-	-	⊙ 1 L.
	33	24,0	16	34	43,4	36	0,0						⊙ 2 L.
	-	-	23	7	35,5	8	45,0	35,5	2	1,0	13¾	S	γ *Piscium.*
	29	40,0	23	31	20,4	32	57,5	20,28	2	0,68	30¼	N	κ *Andromedæ.*
	57	28,5	23	58	51,2	0	11,3	51,3	2	0,35	15	N	α *Andromedæ.*
	-	-	0	34	18,4	35	32,5	18,07	2	0,9	32¼	S	β *Ceti.*

7 At 8h A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.

8	57	31,0	23	58	51,4	0	14,4	51,30	6	+0,49	15	N	α *Andromedæ.*
	2	30,5	0	3	46,0	5	0,-	- -	8	0,57	1	N	γ *Pegasi.*
10	57	35,0	23	58	56,0	0	16,3	56,15	2	0,91	15	N	α *Andromedæ.*
	2	32,0	0	3	48,0	5	1,2	47,96	2	0,8	1	N	γ *Pegasi.*
	33	5,0	0	34	22,8	35	37,0	22,57	8	0,56	32¼	S	β *Ceti.*
	43	18,0	0	45	43,5	48	4,0	43,56	..	...	40¼	N	γ *Cassiopeiæ.*

In the YEAR M.DCCCXII.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	Names or Characters of the STARS AND PLANETS.
DEC. 10	58	0,5	0	59	30,0	0	56,0	29,80	..	...	21¼ N	β *Andromedæ.*
12	14	57,0	17	16	16,0	17	33,6	27,31	..	...	- - -	☉ 1 L.
	17	18,0	17	18	58,5	19	55,6					☉ 2 L.
	P. M. The Clock stopt, owing to the breaking of the Catgut Suspender: Set it going again,—and nearly at the same time as before.											
	43	20,0	0	45	46,2	48	6,0	45,96	..	...	46¼ N	γ *Cassiopeiæ.*
	-	-	0	59	32,0	0	57,5	32,0	..	...	21¼ N	β *Andromedæ.*
	11	32,0	1	13	56,2	16	14,0	45,81	..	...	46¼ N	δ *Cassiopeiæ.*
13	IMMERSION of JUPITER'S *second* Satellite. Time by Clock (S.) 9h 47′ 40″. Mean Time 16h 21′ 55″,89. Planet near the Zenith: Clear: Observation good.											
14	23	48,4	17	25	8,0	26	25,3	19,12	2	+ 0,50	- - -	☉ 1 L.
	26	10,0	17	27	30,0	28	47,3					☉ 2 L.
	57	37,0	23	59	0,4	0	20,0	0,2	..	...	15 N	α *Andromedæ.*
	2	36,4	0	3	52,5	5	5,0	52,76	..	...	1 N	γ *Pegasi.*
	33	9,3	0	34	27,0	35	41,4	26,82	..	...	32½ S	β *Ceti.*
	43	22,4	0	45	48,0	48	8,0	47,91	..	...	46¾ N	γ *Cassiopeiæ.*
	58	4,4	0	59	34,0	-	-	34,0	..	...	21¼ N	β *Andromedæ.*
	11	34,0	1	13	58,0	16	16,2	57,86	..	...	46½ N	δ *Cassiopeiæ.*
15	28	14,0	17	29	33,5	30	51,2	45,14	..	...	- - -	☉ 1 L.
	30	36,0	17	31	56,3	33	14,0					☉ 2 L.
	57	37,3	23	59	0,4	0	20,6	0,42	1	0,3	15 N	α *Andromedæ.*
	2	37,0	0	3	53,2	5	6,0	53,0	1	0,77	1 N	γ *Pegasi.*
	33	9,4	0	34	27,4	35	42,0	27,22	1	0,37	32¼ S	β *Ceti.*
	43	23,0	0	45	48,5	48	8,0	48,31	1	0,37	46¾ N	γ *Cassiopeiæ.*
	58	5,0	0	59	34,0	1	0,4	34,03	1	0,20	21¼ N	β *Andromedæ.*
	11	35,0	0	13	58,6	16	17,0	58,34	1	0,80	46½ N	δ *Cassiopeiæ.*
	IMMERSION of JUPITER'S *first* Satellite. Time by Clock (S.) 10h 21′ 55″. Mean Time 16h 48′ 50″,24. Planet near the Zenith: Clear: Observation good.											
16	32	40,4	17	34	0,5	35	17,0	11,46	1	+ 0,52	- - -	☉ 1 L.
	35	2,6	17	36	23,0	37	39,5					☉ 2 L.
	-	-	23	59	0,5	0	21,0	0,3	1	0,25	15 N	α *Andromedæ.*
	2	38,0	0	3	53,4	5	6,5	53,43	1	0,5	1 N	γ *Pegasi.*
	33	10,6	0	34	28,0	35	43,0	28,1	1	0,98	32½ S	β *Ceti.*
	-	-	0	45	48,7	48	9,0	48,17	1	0,6	46¼ N	γ *Cassiopeiæ.*
	58	6,0	0	59	35,0	1	1,0	34,93	1	0,87	21¼ N	β *Andromedæ.*
	11	36,0	1	13	59,5	16	18,0	59,56	1	0,97	46½ S	δ *Cassiopeiæ.*
17	37	8,0	17	38	27,4	39	44,4	38,2	..	...	- - -	☉ 1 L.
	-	-	17	40	49,0	-	-					☉ 2 L.
	33	10,6	0	34	28,6	35	43,3	28.45	1	0,3	32½ S	β *Ceti.*
	43	24,4	0	45	49,0	48	9,2	49,23	1	0,2	46½ N	γ *Cassiopeiæ.*
	58	7,0	0	59	35,5	0	1,0	35,43	1	0,5	21¼ N	β *Andromedæ.*
	11	36,4	1	14	0,0	16	18,0	59,91	1	0,3	46¼ N	δ *Cassiopeiæ.*
	IMMERSION of JUPITER'S *first* Satellite. Time by Clock (S.) 4h 57′ 14″. Mean Time 11h 12′ 22″,92. Planet high and clear: ♃ at the full, and not very far from the Planet: Observation good.											

In the YEAR M.DCCCXII.

DAY OF THE MONTH.	I. Wire.	MERIDIAN.	III. Wire.	Reduction of Wires.	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
	M S	H M S	M S	S		+		
DEC. 18	- -	17 - -	44 12,4	5,84	..	...	- - -	⊙ 1 L.
	43 56,5	17 45 16,3	46 33,4					⊙ 2 L.
	- -	23 59 3,0	0 23,0	- -	2	1,13	15 N	*α Andromedæ.*
	2 39,2	0 3 55,5	5 8,3	55,28	2	0,89	1 N	*γ Pegasi.*
	43 25,3	0 45 50,0	48 10,5	50,26	1	1,0	46¼ N	*γ Cassiopeiæ.*
	53 8,0	0 59 36,6	1 2,0	36,48	1	1,03	21¼ N	*β Andromedæ.*

IMMERSION of JUPITER'S *third* Satellite.
Time by Clock (S.) 8h 1′ 25″. Mean Time 14h 11′ 52″,35
Planet near the Zenith: full), and near the Planet: Observation otherwise good.

A new Catgut Suspender of the Weight put to the Clock: the Hour Figures on the Plate, however, had been placed so as not to correspond exactly with the minute hand: the Clock Maker altered this on the 22d.

22	59 20,4	18 0 40,5	1 58,0	51,60	..	...	- - -	⊙ 1 L.
	1 42,6	18 3 2,4	- -					⊙ 2 L.
	33 9,0	0 34 26,4	35 41,5	26,50	..	...	32¼ S	*β Ceti.*
24	- -	18 9 15,5	10 32,5	25,97	..	...	- - -	⊙ 1 L.
	10 16,4	18 11 36,6	12 53,3					⊙ 2 L.

The Pendulum having been taken down, has altered the rate of the Clock: Shortened it 9 Divisions of the Nut.

	48 28,0	1 43 45,5	45 1,0	45,69	..	...	6¼ N	*β Arietis.*
	50 16,4	1 51 54,4	53 29,0	54,75	..	...	28¼ N	*γ Andromedæ.*
	54 47,0	1 56 5,3	57 21,5	5,41	..	...	9¼ N	*α Arietis.*
25	11 49,4	18 13 9,5	14 27,3	20,95	..	...	- - -	⊙ 1 L.
	14 12,2	18 15 32,4	16 49,0					⊙ 2 L.
	32 22,0	0 33 39,4	34 54,0	39,37	..	...	32¼ S	*β Ceti.*
	- -	0 45 0,4	47 20,6	0,4	..	...	46¼ N	*γ Cassiopeiæ.*
	57 17,5	0 58 46,4	0 12,3	46,33	..	...	21¼ N	*β Andromedæ.*
	10 47,6	1 13 10,4	15 29,0	10,66	..	+	46¼ N	*β Cassiopeiæ.*
	42 30,7	1 45 48,4	45 4,0	48,54	1	2,87	6¼ N	*β Arietis.*
	50 19,4	1 51 57,0	53 31,5	56,92	1	2,7	28¼ N	*γ Andromedæ.*
	54 49,0	1 56 8,0	57 24,5	8,04	1	2,6	9¼ N	*α Arietis.*

A. M. Lengthened the Pendulum 2 Divisions—Index at 25.

26	16 54,0	18 18 14,3	19 30,6	25,03	..	...	- - -	⊙ 1 L.
	19 16,0	18 20 36,5	21 53,0					⊙ 2 L.
	32 59,4	0 34 17,0	35 32,0	17,02	..	...	32¼ S	*β Ceti.*
	43 12,0	0 45 37,4	47 57,5	37,38	..	...	46¼ N	*γ Cassiopeiæ.*
	57 51,4	0 59 24,2	0 50,0	24,01	..	...	21¼ N	*β Andromedæ.*
	11 24,0	1 13 48,0	16 5,5	- -	..	...	46¼ N	*β Cassiopeiæ.*
	28 30,5	1 30 50,0	33 3,8	49,83	..	...	71¼ S	*Achernar.*
	50 57,0	1 52 34,5	54 9,0	34,45	..	...	28¼ N	*γ Andromedæ.*
	55 25,6	1 56 45,0	58 1,6	44,87	..	...	9¼ N	*α Arietis.*
27	- -	18 22 41,0	23 58,3	52,29	1	+0,6	- - -	⊙ 1 L.
	23 43,4	18 25 3,6	26 21,0					⊙ 2 L.
	33 0,0	0 34 17,6	- -	17,6	1	0,60	32¼ S	*β Ceti.*
	43 12,2	0 45 38,0	47 58,5	38,11	1	0,77	46¼ N	*γ Cassiopeiæ.*
	57 55,5	0 59 24,5	0 50,5	24,41	1	0,57	21¼ N	*β Andromedæ*
	11 25,2	1 13 49,0	- -	49,0	1	1,1	46¼ N	*β Cassiopeiæ.*
	28 31,4	1 30 50,0	33 4,5	50,23	1	0,53	71¼ S	*Achernar.*
	43 9,0	1 44 26,0	45 40,4	26,02	..	...	6¼ N	*β Arietis.*
	50 58,0	1 52 35,3	54 10,0	35,33	1	0,93	28¼ N	*γ Andromedæ.*
	55 26,2	1 56 46,0	58 2,3	45,79	1	0,73	9¼ N	*α Arietis.*

In the YEAR M.DCCCXII.

DAY OF THE MONTH.	I. Wire.	MERIDIAN.	III. Wire.	Reduction of Wires.	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
	M S	H M S	M S	S				
						+		
Dec. 28	25 48,0	18 27 8,4	28 26,5					
	28 1,0	18 29 30,4	30 48,3	19,56	1	0,97	- - -	☉ 1 L.
	33 1,0	0 34 19,3	35 34,0	19,07	1	1,35	32½ S	☉ 2 L.
	43 14,5	0 45 40,0	48 0,0	39,93	1	1,77	46½ N	β *Ceti.*
	57 57,0	0 59 26,0	0 51,8	25,91	1	1,50	21½ N	γ *Cassiopeiæ.*
	11 26,4	1 13 50,0	16 8,6	50,12	1	1,1	46½ N	β *Andromedæ.*
	28 32,4	1 30 52,0	33 5,8	51,80	1	1,43	71¾ S	δ *Cassiopeiæ.*
	43 10,8	1 44 28,0	45 43,0	28,26	. .	. . .	6½ N	*Achernar.*
	50 59,0	1 52 36,7	54 11,9	36,55	1	1,13	28¾ N	β *Arietis.*
	55 28,0	1 56 48,0	58 4,4	47,72	1	1,97	9½ N	γ *Andromedæ.*
29	30 15,5	18 31 35,6	32 53,0					α *Arietis.*
	32 38,0	18 33 59,0	35 14,7	46,92	1	1,36	- - -	☉ 1 L.
	33 1,5	0 34 20,0	35 34,6	19,70	1	0,6	32½ S	☉ 2 L.
	43 15,0	0 45 40,3	48 1,0	40,46	1	0,6	46½ N	β *Ceti.*
	11 27,4	1 13 50,8	16 9,0	50,81	1	0,73	46½ N	γ *Cassiopeiæ.*
	28 33,0	1 30 52,6	33 6,6	52,30	1	0,47	71¾ S	δ *Cassiopeiæ.*
	50 59,6	1 52 37,6	54 11,7	37,38	1	0,73	28¾ N	*Achernar.*
	55 29,0	1 56 48,0	58 5,0	- -	1	0,87	9½ N	γ *Andromedæ.*
30	34 42,4	18 36 2,3	37 19,5					α *Arietis.*
	37 4,4	18 38 24,4	39 42,0	13,46	1	0,64	- - -	☉ 1 L.
	43 15,5	0 45 41,0	48 1,0	40,93	1	0,4	46½ N	☉ 2 L.
	57 58,0	0 59 27,0	0 53,0	26,95	1	0,53	21½ N	γ *Cassiopeiæ.*
	11 28,0	1 13 51,4	16 10,0	51,51	1	0,73	46½ N	β *Andromedæ.*
	20 23,0	1 24 39,3	22 52,3	39,13	. .	. . .	1¼ N	δ *Cassiopeiæ.*
	28 34,0	1 30 53,0	33 6,6	52,90	1	0,67	71¾ S	η *Piscium.*
	43 11,4	1 44 29,0	45 44,3	29,08	1	0,5	6½ N	*Achernar.*
	51 0,0	1 52 38,0	54 12,4	37,83	1	0,5	28¾ N	β *Arietis.*
31	39 9,0	18 40 28,5	41 45,5					γ *Andromedæ.*
	41 31,0	18 42 50,4	44 8,3	39,74	1	−0,32	- - -	☉ 1 L.
	43 16,0	0 45 41,4	48 1,3	41,33	1	+0,4	46½ N	☉ 2 L.
	57 58,8	0 59 28,0	0 53,7	27,78	1	0,83	21½ N	γ *Cassiopeiæ.*
	11 28,6	1 13 52,0	16 10,5	52,08	1	0,57	46½ N	β *Andromedæ.*
	20 24,0	1 24 40,0	22 53,0	39,91	1	0,8	1¼ N	δ *Cassiopeiæ.*
	28 34,0	1 30 53,0	33 7,5	53,26	1	0,3	71¾ S	η *Piscium.*
	43 12,0	1 44 30,0	45 45,0	29,91	1	0,77	6½ N	*Achernar.*
	51 1,0	1 52 39,0	54 13,0	38,71	1	0,87	28¾ N	β *Arietis.*
	55 30,0	1 56 49,9	58 6,0	49,61	1	0,63	9½ N	γ *Andromedæ.*
								α *Arietis.*

IMMERSION of JUPITER's *first* Satellite.

Time by Clock (S.) 9h 39′ 53″. Mean Time 14h 59′ 31″,13.

Planet high and clear: the position aukward: Observation otherwise good.

Observed TRANSITS

OF THE

FIXED STARS AND PLANETS

OVER THE

MERIDIAN.

In the YEAR M.DCCCXIII.

DAY OF THE MONTH.		I. Wire.	Meridian.	III. Wire.	Reduction of Wires.	No. of Days	Rate of Clock.	Zenith Distance.	Names or Characters of the STARS AND PLANETS.
		M S	H M S	M S	S		+		
Jan.	1	43 34,4	18 44 54,7	46 11,5	5,84	1	0,80	- - -	☉ 1 L.
		45 56,5	18 47 15,0	48 34,3					☉ 2 L.
		57 59,5	0 59 99,0	0 54,0	28,68	1	0,67	21½ N	*β Andromedæ.*
		11 29,4	1 13 53,0	16 11,0	52,92	1	0,77	46½ N	*ξ Cassiopeiæ.*
		20 24,7	1 21 40,8	22 54,0	40,75	1	0,83	1½ N	*η Piscium.*
		28 35,0	1 30 54,0	33 8,0	54,03	1	0,83	71½ S	*Achernar.*
		43 13,0	1 44 30,4	45 46,0	30,67	1	0,8	6½ N	*β Arietis.*
		51 1,4	1 52 39,4	54 14,0	32,44	1	0,6	28½ N	*γ Andromedæ.*
		55 31,0	1 56 50,8	58 7,0	50,63	1	0,97	9½ N	*α Arietis.*
		At 8 P. M. Wound up the Clock: Arc of Vibration 1°: 38'.							
	2	48 1,0	18 49 20,5	50 39,0	31,97	1	+ 0,63	- - -	☉ 1 L.
		- -	18 - -	53 0,0					☉ 2 L.
		11 29,6	1 13 53,4	16 11,4	53,27	1	0,39	46½ N	*ξ Cassiopeiæ.*
		- -	1 21 41,0	22 54,0	40,84	..	...	- - -	*η Piscium.*
		28 35,5	1 30 55,0	33 9,0	54,91	1	0,83	71½ S	*Achernar.*
		43 14,0	1 44 31,4	45 46,0	31,42	1	0,67	6½ N	*β Arietis.*
		51 1,6	1 52 40,4	54 14,4	40,09	1	0,53	28½ N	*γ Andromedæ.*
		55 31,3	1 56 51,0	58 7,2	50,85	1	0,23	9½ N	*α Arietis.*
		Immersion of Jupiter's *first* Satellite. Time by Clock (S.) 4h 14' 55". Mean Time 3h 27' 13",81. Planet high and clear: Observation good.							
	3	52 26,0	18 53 45,5	- -	- -	..	+ ...	- - -	☉ 1 L.
		11 30,0	1 13 54,0	16 12,0	53,82	1	0,53	46½ N	*ξ Cassiopeiæ.*
		20 25,4	1 21 41,4	22 55,0	41,47	1	0,7	1½ N	*η Piscium.*
		28 36,4	1 30 55,4	33 9,5	55,46	1	0,6	71½ S	*Achernar.*
		43 14,3	1 44 32,2	45 47,0	32,14	1	0,7	6½ N	*β Arietis.*
		51 2,0	1 52 40,5	54 14,4	40,22	1	0,17	28½ N	*γ Andromedæ.*
		55 32,3	1 56 52,0	58 8,0	51,80	1	0,93	9½ N	*α Arietis.*

In the YEAR M.DCCCXIII.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	II. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
JAN. 3	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.											
4	56	51,7	18	58	11,2	59	28,5	22,72	1	+ 0,92	- - -	⊙ 1 L.
	59	13,8	18	-	-	1	51,0					⊙ 2 L.
	20	26,0	1	21	42,3	22	55,0	42,07	1	0.5	1½ N	*ψ Piscium.*
	43	15,0	1	44	33,0	45	47,7	32,89	1	0,73	6½ N	*β Arietis.*
	51	3,0	1	52	41,0	54	15,0	40,89	1	0,7	28⅝ N	*γ Andromedæ.*
	55	33,0	1	56	52,3	58	9,0	52,38	1	0,77	9½ N	*α Arietis.*
	54	49,0	2	56	16,0	57	48,8	16,08	..	. . .	27⅝ N	*Algol.*
	9	24,3	3	11	16,0	13	4,0	16,11	..	. . .	36¼ N	*Algenib.*
5	1	16,0	19	2	35,5	3	52,3	46,23	1	0,50	- - -	⊙ 1 L.
	3	37,4	19	4	56,0	6	14,3					⊙ 2 L.
	11	32,0	1	13	56,0	16	14,0	55,82	2	1,0	46½ N	*δ Cassiopeiæ.*
	20	27,0	1	21	43,0	22	55,5	42,80	1	0,73	1½ N	*ψ Piscium.*
	28	37,0	1	30	56,3	33	10,0	56,18	2	0,34	71⅓ S	*Achernar.*
	55	33,6	1	56	53,0	-	-	53,06	1	0,8	9½ N	*α Arietis.*
	54	49,6	2	56	17,0	57	49,0	16,78	1	0,6	27½ N	*Algol.*
6	5	40,3	19	6	59,4	-	-	10,25	1	0,62	- - -	⊙ 1 L.
	-	-	19	9	21,4	10	37,0					⊙ 2 L.
	11	32,6	1	13	56,7	16	14,0	56,32	1	0,43	46⅓ N	*δ Cassiopeiæ.*
	28	37,0	1	30	57,0	33	11,0	56,78	1	0,67	71⅓ S	*Achernar.*
	43	16,3	1	44	34,0	45	49,3	34,12	2	0,65	6½ N	*β Arietis.*
	51	4,4	1	52	42,0	54	16,4	42,09	2	0,68	28⅝ N	*γ Andromedæ.*
	55	34,0	1	56	53,3	58	10,3	53.45	1	0,35	9½ N	*α Arietis.*
	54	41,5	2	56	17,4	57	49,5	17,28	1	0,53	27½ N	*Algol.*
	IMMERSION of a small STAR in AQUARIUS behind the ☽'s dark Limb. Time by Clock 8ʰ 25′ 32″. Apparent Time 8ʰ 15′ 59″.											
7	10	3,6	19	11	23,0	12	40,3	34,04	1	+ 0,89	- - -	⊙ 1 L.
	12	25,0	19	13	45,0	15	1,5					⊙ 2 L.
	20	28,0	1	21	43,4	22	57,0	43,62	2	0,48	1½ N	*ψ Piscium.*
	28	38,0	1	30	57,6	33	11,0	57,33	1	0,55	71½ S	*Achernar.*
	43	16,0	1	44	34,3	45	49,5	34,24	1	0,07	6½ N	*β Arietis.*
	54	41,5	2	-	-	57	50,4	17,70	1	0,27	27½ N	*Algol.*
	IMMERSION of JUPITER's *second* Satellite. Time by Clock (S.) 8ʰ 31′ 58″. Mean Time 13ʰ 23′ 46″,62. Planet near the Zenith: Clear: Observation good.											
	IMMERSION of JUPITER's *first* Satellite. Time by Clock (S.) 12ʰ 1′ 25″. Mean Time 16ʰ 52′ 36″,75. Planet high and very clear: Observation good.											
8	14	26,5	19	15	46,5	17	3,7	57,67	1	+ 1,33	- - -	⊙ 1 L.
	16	49,0	*19	18	8,7	*19	25,8					⊙ 2 L.
	Eastern end of the Axis 0″,17 too high.											
	28	38,6	1	30	58,5	33	11,5	57,96	1	+ 0,6	71½ S	*Achernar.*
	43	16,3	1	44	35,0	-	-	34,69	1	0,33	6½ N	*β Arietis.*
	51	5,5	1	52	43,5	54	17,5	43,29	2	0,87	28½ N	*γ Andromedæ.*
	54	42,0	2	56	18,0	57	51,0	18,13	1	0,35	27½ N	*Algol.*
	9	26,4	3	11	18,0	13	6,0	18,13	4	0,51	36¼ N	*Algenib.*

In the YEAR M.DCCCXIII.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	Names or *Characters* of the STARS AND PLANETS.
JAN. 9	18	49,7	19	20	8,8	21	25,8	19,94	1	+ 0,47	. . .	☉ 1 L.
	21	11,0	*19	22	30,8	*23	47,7					☉ 2 L.
	Western end of the Axis 0″,32 too high.											
	The Observations with an Asterisk were taken by *Reflection*, for the purpose of levelling the Axis of the Transit Telescope.											
	28	39,0	1	30	58,0	33	12,4	58,19	1	+ 0,38	71½ S	*Achernar.*
	43	17,0	1	44	35,3	45	50,0	35,12	1	0,65	6½ N	*β Arietis.*
	51	6,0	1	52	44,0	54	18,0	43,89	1	0,57	28¼ N	*γ Andromedæ.*
	55	35,0	1	56	55,0	58	12,0	54,98	3	0,49	9½ N	*α Arietis.*
	54	42,8	2	56	19,0	57	51,4	18,93	1	0,73	27½ N	*Algol.*
	9	27,4	3	11	18,5	13	6,6	18,78	1	0,7	36½ N	*Algenib.*
10	23	11,5	19	24	30,8	25	47,7	41,76	1	0,52	. . .	☉ 1 L.
	25	32,8	*19	26	52,8	*28	8,8					☉ 2 L.
	Western end of the Axis 0″,13 too high.											
	28	39,4	1	30	59,0	33	13,0	58,88	1	+ 0,67	71½ S	*Achernar.*
	48	5,5	1	50	6,0	51	18,3	5,89	. .	. . .	7½ S	☽ 1 L. 6ʰ 31′ 10″,97 mean Time.
	-	-	1	52	44,4	54	18,4	44,21	1	0,4	28½ N	*γ Andromedæ.*
	55	36,0	1	56	55,5	58	12,6	55,63	1	0,7	9½ N	*α Arietis.*
	54	43,0	2	56	19,0	57	51,5	19,01	1	0,1	27¼ N	*Algol.*
	9	27,8	3	11	19,0	13	7,0	19,23	1	0,43	36½ N	*Algenib.*
11	27	32,0	19	28	51,7	30	8,7	2,4	1	0,24	. . .	☉ 1 L.
	29	54,0	*19	31	13,7	*32	29,7					☉ 2 L.
	Eastern end of the Axis 0″,25 too high.											
	By the mean of the Observations by Reflection from the 8th, the Axis appears perfectly level.											
	43	17,6	1	44	36,0	45	50,4	35,72	2	+ 0,28	6½ N	*β Arietis.*
	-	-	1	52	44,6	54	18,5	44,36	1	0,15	28½ N	*γ Andromedæ.*
	55	36,4	1	56	56,3	58	13,0	56,29	1	0,53	9½ N	*α Arietis.*
	45	34,4	2	46	50,0	48	4,4	50,81	. .	. . .	3½ S	☽ 1 L. 7ʰ 23′ 50″,61 mean Time.
	54	43,3	2	56	19,4	57	52,0	19,40	1	0,4	27¼ N	*Algol.*
	9	28,0	3	11	19,4	13	7,8	19,68	1	0,47	36½ N	*Algenib.*
12	31	52,4	19	33	11,6	34	29,0	22,19	1	−0,21	- - -	☉ 1 L.
	34	13,3	19	35	32,6	36	48,4					☉ 2 L.
	43	18,0	1	44	36,0	45	51,0	35,97	1	+0,33	6½ N	*β Arietis.*
	51	7,4	1	52	44,8	54	18,5	44,76	1	0,1	28½ N	*γ Andromedæ.*
	55	36,0	1	56	56,0	58	13,5	55,85	1	−0,4	9½ N	*α Arietis.*
	54	44,0	2	56	19,6	57	52,5	19,76	1	+0,4	27½ N	*Algol.*
	44	16,4	3	45	34,0	46	49,5	34,14	. .	. . .	1½ N	☽ 1 L. 8ʰ 18′ 28″,76 mean Time.
13	36	12,5	19	37	31,6	38	48,0	42,19	1	+0,70	- - -	☉ 1 L.
	38	33,4	19	39	53,0	41	8,8					☉ 2 L.
	-	-	1	44	35,8	45	51,0	35,80	1	−0,1	6½ N	*β Arietis.*
	-	-	1	52	45,5	54	19,5	45,31	1	+0,85	28½ N	*γ Andromedæ.*
	55	36,5	1	56	55,8	58	12,0	55,75	1	0,4	9½ N	*α Arietis.*
	54	43,7	2	56	19,8	57	52,7	19,88	1	−0,1	27¼ N	*Algol.*
	-	-	3	11	19,8	13	7,8	19,70	1	0,1	36½ N	*Algenib.*
	24	12,7	4	-	-	26	42,7	29,09	. .	. . .	3 N	*Aldebaran.*
	45	1,8	4	46	20,0	47	35,7	20,10	. .	. . .	5 N	☽ 1 L. 9ʰ 15′ 8″,09 mean Time.
14	40	32,4	19	41	51,0	43	7,5	1,82	1	0,93	- - -	☉ 1 L.
	42	52,7	19	44	12,8	15	28,7					☉ 2 L.

In the YEAR M.DCCCXIII.

DAY of the MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	II. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
JAN. 14	55	36,5	1	56	56,0	-	-	56,02	1	+ 0,2	9½ N	*α Arietis.*
	54	44,5	2	56	20,0	57	52,7	20,18	1	0,33	27½ N	*Algol.*
	9	27,5	3	11	19,5	13	7,7	19,58	1	0,2	36½ N	*Algenib.*
												Immersion of Jupiter's *second* Satellite.
												Time by Clock (S.) 11h 56′ 36″. Mean Time 16h 0′ 2″,89.
												Planet high: ☽ up, and near the full: flying Clouds.
15	44	51,5	19	46	10,0	47	26,5	20,52	1	− 0,10	- - -	☉ 1 L.
	47	11,8	19	48	30,8	49	46,7					☉ 2 L.
	-	-	2	56	21,5	57	53,7	21,27	1	+1,25	27½ N	*Algol.*
	9	28,0	3	11	21,0	13	8,7	20,71	1	1,0	36½ N	*Algenib.*
	48	20,8	3	49	36,6	-	-	36,54	..	...	27 S	*γ Eridani.*
	24	14,5	4	25	31,0	-	-	30,97	..	...	3 N	*Aldebaran.*
16	48	21,8	3	49	37,6	50	50,5	37,56	1	1,0	27 S	*γ Eridani.*
	50	54,8	7	52	14,0	53	30,0	13,93	..	...	9½ N	☽ 1 L. 12h 8′ 43″,48 mean Time.
17	53	28,0	19	54	46,0	56	2,4	56,68	2	1,13	- - -	☉ 1 L.
	55	43,5	19	57	6,7	58	22,7					☉ 2 L.
	54	46,5	2	56	22,8	57	55,5	22,78	2	0,78	27½ N	*Algol.*
	9	30,0	3	11	22,7	13	10,7	22,56	2	0,95	36½ N	*Algenib.*
	18	22,5	3	49	38,5	50	50,7	38,22	1	0,6	27 S	*γ Eridani.*
	16	45,6	4	18	3,0	19	17,5	2,98	..	...	6 N	*ε Tauri.*
	24	16,5	4	25	33,0	26	45,5	32,70	2	1,0	3 N	*Aldebaran.*
												At 7 A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.
18	57	44,0	19	59	2,5	0	18,0	12,68	1	+ 0,22	- - -	☉ 1 L.
	0	4,5	20	1	22,6	2	38,7					☉ 2 L.
	51	36,5	2	52	50,0	54	1,7	50,22	..	...	10 S	*α Ceti.*
	41	18,7	3	42	44,5	44	7,0	44,45	..	—	18½ N	*ζ Persei.*
	-	-	4	18	2,5	19	17,5	2,64	1	0,25	6 N	*ε Tauri.*
	24	16,0	4	25	32,0	26	45,7	32,11	1	0,43	3 N	*Aldebaran.*
	43	43,5	4	45	10,5	46	34,5	10,52	..	...	19½ N	*ι Aurigæ.*
19	-	-	20	3	17,5	4	33,5	27,60	1	0,28	- - -	☉ 1 L.
	4	18,8	20	-	-	-	-					☉ 2 L.
	-	-	2	56	22,0	57	55,0	22,34	2	0,33	27½ N	*Algol.*
	9	29,5	3	11	21,5	13	9,6	21,56	2	0,46	36½ N	*Algenib.*
	28	11,7	3	29	59,7	31	43,5	59,63	..	...	34½ N	*ζ Persei.*
20	6	13,6	20	7	32,0	8	47,5	41,81	1	0,29	- - -	☉ 1 L.
	8	32,5	20	9	51,8	11	7,6					☉ 2 L.
	51	36,5	2	52	49,6	54	0,8	49,80	2	0,22	10 S	*α Ceti.*
	41	18,0	3	42	43,0	44	5,5	43,15	2	0,78	18½ N	*ζ Persei.*
	-	-	4	25	30,8	26	44,6	30,68	2	0,58	3 N	*Aldebaran.*
	43	41,6	4	45	8,7	46	33,6	8,9	2	0,76	19½ N	*ι Aurigæ.*
21	10	26,5	20	11	45,5	13	0,7	55,07	1	0,44	- - -	☉ 1 L.
	12	46,7	20	14	4,8	15	20,5					☉ 2 L.
	28	9,7	3	29	57,5	31	41,8	57,62	2	0,98	34½ N	*ζ Persei.*
	16	43,0	4	18	0,6	-	-	0,57	2	0,73	6 N	*ε Tauri.*
	24	13,4	4	25	29,7	26	43,6	29,80	1	1,05	3 N	*Aldebaran.*
	43	40,8	4	45	7,7	46	32,5	7,95	1	0,97	19½ N	*ι Aurigæ.*
22	14	39,5	20	15	57,0	17	13,5	7,14	1	0,86	- - -	☉ 1 L.
	16	58,7	20	18	16,7	19	31,5					☉ 2 L.
	16	42,5	4	17	59,5	19	14,5	59,70	1	0,8	6 N	*ε Tauri.*
	24	12,5	4	25	28,7	26	42,6	28,83	1	0,97	3 N	*Aldebaran.*
	43	39,5	4	45	6,6	46	31,0	6,70	1	1,3	19½ N	*ι Aurigæ.*
23	18	50,0	20	20	8,5	21	24,5	18,31	1	1,0	- - -	☉ 1 L.
	21	9,6	20	22	28,0	23	43,5					☉ 2 L.

In the YEAR M.DCCCXIII.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters of the* STARS AND PLANETS.
JAN. 23	54	42,4	2	56	18,6	57	51,5	18,66	4	0,86	27½ N	*Algol.*
	9	25,8	3	11	18,0	13	6,0	17,98	..	...	36½ N	*Algenib.*
	28	7,6	3	29	55,7	31	39,7	55,55	..	...	34½ N	*δ Persei.*

IMMERSION of JUPITER's *third* Satellite: Time by Clock (S.) 6h 12′ 35″. Mean Time 10h 1′ 51″,06.
EMERSION - - - - - - - - - - 9h 52′ 43″. 13h 41′ 29″,14.
Planet high and clear at the Immersion: flying Clouds and the ☽ up at the Emersion: the Planet just in opposition, and the Satellite was very near the Limb, owing to which the Observations were not satisfactory.

IMMERSION of JUPITER's *first* Satellite.
Time by Clock (S.) 11h 19′ 26″. Mean Time 15h 7′ 52″,0.
Planet high: flying Clouds: Observed under circumstances similar to the above.

24	23	1,0	20	24	19,0	25	34,0	28,87	1	1,44	- - -	☉ 1 L.
	25	19,5	20	26	37,5	27	53,5					☉ 2 L.
	28	6,7	3	29	54,5	31	38,6	54,55	2	1,07	34½ N	*δ Persei.*
	48	17,5	3	49	32,7	50	45,7	32,83	7	0,76	27½ S	*γ Eridani.*
	16	39,5	4	17	56,8	19	11,5	56,85	2	1,45	6 N	*ε Tauri.*
	24	10,5	4	25	26,6	26	40,0	26,63	2	1,12	8 N	*Aldebaran.*
	43	37,0	4	45	4,5	46	28,6	4,42	2	1,17	19½ N	*ι Aurigæ.*
	1	23,5	5	3	8,5	4	50,5	8,69	..	...	32¼ N	*Capella.*
25	27	10.7	20	28	29,0	29	44,6	38,24	1	0,73	- - -	☉ 1 L.
	29	29.7	20	30	47,6	32	2,7					☉ 2 L.
	49	32,0	2	51	33,0	53	20,0	33,11	6	1,19	39½ N	*γ Persei.*
	9	23,5	3	11	15,5	13	3,6	15,56	2	1,2	36½ N	*Algenib.*
	48	15,8	3	49	31,7	50	44,0	31,48	1	1,47	27½ S	*γ Eridani.*
	24	8,7	4	25	25,5	26	38,9	25,26	1	1,6	8 N	*Aldebaran.*
	43	36,5	4	45	3,5	46	27,6	3,55	1	0,83	19½ N	*ι Aurigæ.*
	1	22,5	5	3	7,6	4	49,0	7,62	1	1,13	32¼ N	*Capella.*

EMERSION of JUPITER's *second* Satellite.
Time by Clock (S.) 7h 7′ 25″. Mean Time 10h 48′ 42″,74.
Planet near the Zenith: Clear: Observation good: the Planet just past the Opposition.

EMERSION of JUPITER's *first* Satellite.
Time by Clock (S.) 8h 11′ 20″. Mean Time 11h 52′ 23″,82.
Circumstances as above: ☽, however, on the Meridian; and very near the Zenith.

27	35	27,5	20	36	45,5	38	00,0	54,29	2	1,43	- - -	☉ 1 L.
	-	-	20	39	3,0	40	18,7					☉ 2 L.
	9	20,0	3	11	12,7	13	0,8	12,58	2	1,51	36½ N	*Algenib.*
	28	3,0	3	23	50,4	31	34,5	50,56	2	1,55	34½ N	*δ Persei.*
	48	12,8	3	49	28,5	50	41,6	28,53	2	1,43	27½ S	*γ Eridani.*
	43	32,7	4	45	0,5	46	24,6	0,35	2	1,64	19½ N	*ι Aurigæ.*
	1	19,6	5	3	4,6	4	46,2	4,69	2	1,45	32½ N	*Capella.*
	13	16,7	5	14	59,0	15	59,7	59,35	..	...	15½ N	*β Tauri.*
28	39	35,0	20	40	52,5	42	7,0	1,68	1	0,91	- - -	☉ 1 L.
	41	52,7	20	43	11,6	44	25,7					☉ 2 L.
	41	7,0	3	42	32,5	43	55,6	32,68	8	1,31	18½ N	*δ Persei.*
	48	11,5	3	49	27,5	50	39,7	27,23	1	1,3	27½ S	*γ Eridani.*
	16	38,8	4	17	51,4	19	6,5	51,48	1	1,39	6 N	*ε Tauri.*
	24	4,5	4	25	21,0	26	34,5	20,95	1	1,41	8 N	*Aldebaran.*

IMMERSION of JUPITER's *fourth* Satellite.
Time by Clock (S.) 12h 2′ 20″. Mean Time 15h 31′ 6″,16
Planet sufficiently high and clear: Observation good.

In the YEAR M.DCCCXIII.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
JAN. 29	43	41,0	20	44	58,8	46	13,4			+		
	45	59,0	20	47	16,7	48	31,5	7,68	1	1,40	- - -	☉ 1 L.
	9	17,0	3	11	9,4	12	57,6					☉ 2 L.
	41	6,0	3	42	31,5	43	53,7	9,38	2	—1,58	36¼ N	*Algenib.*
	24	2,7	4	25	19,5	-	-	31,45	1	1,3	18¼ N	*ζ Persei.*
	43	29,5	4	44	57,5	46	21,4	19,51	1	1,65	3 N	*Aldebaran.*
								57,25	2	1,66	19¼ N	*ι Aurigæ.*
30	47	46,5	20	49	4.0	50	18,5					
	50	4.5	20	51	21,8	52	36,5	12,91	1	1,37	- - -	☉ 1 L.
	9	15.7	3	11	7,7	12	56,4					☉ 2 L.
	27	57,7	3	29	45,6	31	29,5	7,91	1	1,4	36¼ N	*Algenib.*
	41	4,0	3	42	29,6	43	52,7	45,58	1	1,73	34¼ N	*δ Persei.*
	24	1,3	4	25	17,6	26	31,5	29,75	1	1,63	18¼ N	*ζ Persei.*
								17,70	1	1,65	3 N	*Aldebaran.*

EMERSION of JUPITER's *third* Satellite.
Time by Clock (S.) 10h 39′ 0″. Mean Time 14h 0′ 11″,22.
Planet high and clear: Observation good.

31	51	51,5	20	53	8,5	54	22,7			+		
	54	8,6	20	55	26,0	56	40,5	17,24	1	1,57	- - -	☉ 1 L.
	27	56,4	3	29	44,5	31	28,5					☉ 2 L.
	41	2,5	3	42	28,5	43	50,7	44,45	1	—1,13	34¼ N	*δ Persei.*
	24	0,6	4	-	-	26	29,5	28,33	1	1,53	18¼ N	*ζ Persei.*
	43	27,0	4	44	54,5	46	18,5	16,46	1	1,35	3 N	*Aldebaran.*
	1	13,5	5	2	58,6	4	40.5	54,40	2	1,4	19¼ N	*ι Aurigæ.*
	13	9,7	5	14	33,3	15	55,5	58,69	2	1,32	32¼ N	*Capella.*
								33,20	4	1,58	15¼ N	*β Tauri.*
FEB. 1	At 7 P. M. Examined the Line of Collimation and Meridian adjustment,—found both right.											
	55	55,7	20	57	12,4	58	26,6			—		
	58	16,7	20	59	29,7	0	44,5	21,33	1	0,91	- - -	☉ 1 L.
												☉ 2 L.

Wound up the Clock: Arc of Vibration 1°: 42.

SOLAR ECLIPSE.

	Time by Clock.	*Apparent Time.*
Beginning - - -	23h 59′ 30″	2h 40′ 42″,4
End - - - -	1 2 47	4 3 45 ,6

Clear: the beginning uncertain to 5 or 6 seconds,—the end certain to a second.
Digits eclipsed 1′ 30′ on the ☉'s N. Limb.

20	22,5	8	21	38,5	22	52,0	38,58	..	. . .	7¼ N	♃ *Centrum.* 11h 35′ 25″,12 mean Time.

EMERSION of JUPITER's *second* Satellite.
Time by Clock (S.) 10h 12′ 0″. Mean Time 13h 25′ 26″,74.

EMERSION of JUPITER's *first* Satellite.
Time by Clock (S.) 10h 32′ 25″. Mean Time 13h 45′ 53″,03.
Planet high and clear: Observation satisfactory.

2	59	59,0	21	1	15,7	2	29,7					
	2	15,8	21	3	32,5	4	46,7	24,17	1	1,36	- - -	☉ 1 L.
	27	53,0	3	29	40,5	31	25,0					☉ 2 L.
	40	59,0	3	42	25,7	43	48,5	40,73	2	1,82	34¼ N	*δ Persei.*
	23	55,7	4	25	13,5	26	26,8	25,50	2	1,41	18¼ N	*ζ Persei.*
	1	9,5	5	2	55,6	4	36,7	13,33	2	1,65	3 N	*Aldebaran.*
	13	6.7	5	14	29,5	15	50,5	55.29	2	1,76	32¼ N	*Capella.*
	31	25,7	5	32	54,6	34	19,7	29,80	2	1,63	15¼ N	*β Tauri.*
								54,45	..	. . .	47¼ S	*α Columbæ.*

In the YEAR M.DCCCXIII.

DAY of the MONTH.		I. Wire.	MERIDIAN.		III. Wire.		Reduction of Wires.	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
		M S	H M	S	M	S	S		+		
FEB.	3	4 1,0	21	5 17,5	6	31,5	26,04	1	1,43	- - -	⊙ 1 L.
		6 17,5	21	7 34,6	8	48,5					⊙ 2 L.
		23 55,5	4	25 11,7	26	25,6	11,83	1	−1,4	3 N	*Aldebaran.*
		43 22,8	4	44 49,7	46	14,0	49,82	3	1,5	19½ N	*ι Aurigæ.*
		1 8,5	5	2 53,6	4	35,5	53,74	1	1,4	32½ N	*Capella.*
			EMERSION of JUPITER'S *first* Satellite. Time by Clock (S.) 5h 8′ 33″. Mean Time 8h 15′ 0″,34. Planet high and clear: Observation good.								
		13 5,7	5	14 28,6	15	48,7	- -	1	1,23	15½ N	*β Tauri.*
		31 24,4	5	32 52,5	34	18,7	- -	1	1,47	47½ S	*α Columbæ.*
	4	8 2,5	21	9 19,0	10	33,5	27,47	1	1,07	- - -	⊙ 1 L.
		10 18,8	21	11 35,7	12	49,7					⊙ 2 L.
		23 53,7	4	25 10,5	26	24,6	10,53	1	1,33	3 N	*Aldebaran.*
		43 20,7	4	44 48,0	46	12,5	48,07	1	1,57	19½ N	*ι Aurigæ.*
		4 17,5	5	5 31,6	6	42,8	31,55	..	...	21½ S	*β Orionis.*
		23 10,5	5	24 27,7	25	41,7	27,60	..	...	31½ S	*α Leporis.*
		31 22,6	5	32 51,5	33	16,7	51,38	2	1,54	47½ S	*α Columbæ.*
	5	- -	21	13 19,5	14	33,5	27,47	1	1,50	- - -	⊙ 1 L.
		14 19,5	21	15 35,5	16	49,5					⊙ 2 L.
		16 21,5	4	17 39,6	18	54,5	39,50	8	1,5	6 N	*ε Tauri.*
		23 52,5	4	25 8,8	26	22,7	8,90	1	1,7	3 N	*Aldebaran.*
	6	16 2,7	21	17 19,5	18	33,5	27,41	1	1,19	- - -	⊙ 1 L.
		18 18,7	21	19 35,7	20	48,8					⊙ 2 L.
		23 51,0	4	25 7,7	26	21,6	7,70	1	1,23	3 N	*Aldebaran.*
		43 18,5	4	44 45,5	46	9,7	45,57	2	1,25	19½ N	*ι Aurigæ.*
		- -	5	5 28,7	6	40,5	28,84	2	1,3	21½ S	*β Orionis.*
		13 48,0	5	15 1,7	16	12,7	1,69	..	...	7 S	*γ Orionis.*
		- -	5	24 24,5	25	39,0	24,58	..	...	31½ S	*α Leporis.*
	7	20 1,4	21	21 18,4	22	31,7	25,93	1	1,48	- - -	⊙ 1 L.
		22 17,7	21	23 33,8	24	47,0					⊙ 2 L.
		23 49,6	4	25 6,0	26	19,7	6,03	1	1,67	3 N	*Aldebaran.*
		43 16,5	4	44 44,4	46	8,5	44,22	1	1,43	19½ N	*ι Aurigæ.*
		31 18,5	5	32 46,7	34	12,5	46,77	3	1,46	47½ S	*α Columbæ.*
		- -	5	44 57,5	46	8,7	57,43	..	...	5 S	*α Orionis.*
	8	24 0,0	21	25 15,8	26	29,5	23,71	1	1,32	- - -	⊙ 1 L.
		26 15,7	21	27 31,3	28	44,4					⊙ 2 L.
		23 48,4	4	25 4,7	26	18,5	4,78	1	1,23	3 N	*Aldebaran.*
		43 15,5	4	44 42,7	46	6,6	42,65	1	1,53	19½ N	*ι Aurigæ.*
	9	27 57,5	21	29 13,5	30	27,0	21,25	1	0,86	- - -	⊙ 1 L.
		30 12,7	21	31 29,0	-	-					⊙ 2 L.
		23 46,8	4	25 3,3	26	16,7	3,23	1	1,6	3 N	*Aldebaran.*
		24 34,5	4	25 52,5	27	7,8	52,55	..	...	3½ N	☽ 1 L. 7h 8′ 59″,67 mean Time.
	10	31 53,3	21	33 9,0	34	22,8	16,90	1	1,85	- - -	⊙ 1 L.
		34 8,5	21	35 24,7	36	37,5					⊙ 2 L.
		23 45,4	4	25 1,5	26	14,8	1,50	1	1,7	3 N	*Aldebaran.*
		4 8,5	5	5 22,7	6	34,6	22,80	2	1,3	21½ S	*β Orionis.*
		24 44,5	5	26 3,5	27	20,5	3,73	..	...	6½ N	☽ 1 L. 8h 5′ 7″,21 mean Time.
		43 38,5	5	44 52,8	46	4,6	52,85	3	1,47	5 S	*α Orionis.*
		13 0,5	6	14 17,6	15	31,7	17,52	..	...	31½ S	*β Can. Maj.*
		17 37,6	6	19 38,3	21	34,5	38,29	..	...	65½ S	*Canopus.*
			EMERSION of JUPITER'S *first* Satellite. Time by Clock (S.) 7h 30′ 13″. Mean Time 10h 8′ 56″,35. Planet in an awkward position for observing the Emersion: the Observation, however, satisfactory: ☽ up.								

In the YEAR M.DCCCXIII.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
FEB. 10	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.											
11	55	48,7	21	37	5,0	38	17,5	12,01	1	1,69	- - -	☉ 1 L.
	58	3,5	21	39	19,6	40	32,7					☉ 2 L.
12	39	43,0	21	40	59,0	42	12,5	6,66	1	1,54	- - -	☉ 1 L.
	41	58,5	21	43	13,7	44	27,7					☉ 2 L.
	23	41,6	4	24	57,7	26	11,5	57,83	2	1,82	3 N	*Aldebaran.*
	4	5,5	5	5	19,0	6	30,8	19,25	2	1,88	21½ S	*β Orionis.*
	13	38,6	5	14	52,6	16	3,5	52,50	6	1,54	7 S	*γ Orionis.*
	22	57,8	5	24	14,8	25	29,5	14,92	5	1,65	31½ S	*κ Leporis.*
	31	9,7	5	32	38,6	34	4,5	38,65	5	1,66	47½ S	*α Columbæ.*
	43	34,7	5	44	48,7	46	0,5	48,83	2	2,0	5 S	*α Orionis.*
	17	33,8	6	19	34,5	21	31,0	34,56	2	1,85	65½ S	*Canopus.*
13	43	37,0	21	44	52,6	46	5,8	0,84	1	1,46	- - -	☉ 1 L.
	45	51,4	21	47	7,7	48	20,4					☉ 2 L.
	4	3,5	5	5	17,5	6	28,7	17,47	1	1,87	21½ S	*β Orionis.*
	22	56,5	5	24	13,4	25	27,6	13,42	1	1,53	31 S	*κ Leporis.*
	31	8,5	5	32	37,4	34	2,6	37,28	1	1,43	47½ S	*α Columbæ.*
	43	33,6	5	44	47,6	45	58,7	47,55	1	1,53	5 S	*α Orionis.*
	17	32,5	6	19	33,4	21	29,5	33,31	1	1,3	65½ S	*Canopus.*
14	47	30,8	21	48	46,5	49	59,5	53,56	1	0,78	- - -	☉ 1 L.
	49	44,7	21	51	0,7	52	13,9					☉ 2 L.
	23	38,7	4	24	55,6	26	8,7	55,33	2	1,3	3 N	*Aldebaran.*
	4	1,7	5	5	16,6	6	27,6	16,30	1	1,27	21½ S	*β Orionis.*
	13	35,7	5	14	49,6	15	59,8	49,34	1	1,7	7 S	*γ Orionis.*
	43	32,4	5	44	46,8	45	57,6	46,58	1	1,93	5 S	*α Orionis.*
	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.											
15	51	23,4	21	52	39,0	53	51,8	45,92	1	1,34	- - -	☉ 1 L.
	53	37,4	21	54	52,8	56	5,7					☉ 2 L.
	23	37,4	4	24	54,0	26	7,3	53,88	1	1,43	3 N	*Aldebaran.*
	-	-	5	5	14,7	6	25,8	14,49	1	1,85	21½ S	*β Orionis.*
	13	34,4	5	14	48,0	15	58,8	47,97	1	1,3	7 S	*γ Orionis.*
	22	53,5	5	24	10,5	25	24,6	10,48	2	1,48	31 S	*κ Leporis.*
	31	5,7	5	32	34,6	34	0,0	34,53	2	1,26	47½ S	*α Columbæ.*
	43	30,5	5	44	44,6	45	55,8	44,55	2	1,50	5 S	*α Orionis.*
	17	29,7	6	19	30,5	21	27,0	30,51	2	1,37	65½ S	*Canopus.*
16	55	15,5	21	56	30,8	57	43,8	37,84	1	0,98	- - -	☉ 1 L.
	57	29,7	21	58	44,7	59	57,0					☉ 2 L.
	23	35,7	4	24	52,0	26	5,8	51,88	1	1,73	3 N	*Aldebaran.*
	13	33,5	5	14	46,8	15	57,6	46,84	1	1,1	7 S	*γ Orionis.*
	20	54,4	5	22	7,6	23	18,5	7,69	..	...	13½ S	*δ Orionis.*
	25	10,7	5	26	23,6	27	34,8	23,84	..	...	14½ S	*ε Orionis.*
	29	46,6	5	30	59,7	32	10,5	59,79	..	...	15½ S	*ζ Orionis.*
	43	29,6	5	44	43,6	45	55,0	43,63	1	0,9	5 S	*α Orionis.*
	17	27,8	6	19	28,6	21	25,8	28,81	1	1,67	65½ S	*Canopus.*
17	59	6,6	22	0	21,8	1	34,6	28,87	1	1,17	- - -	☉ 1 L.
	1	20,5	22	2	35,7	3	48,5					☉ 2 L.
	3	57,8	5	5	11,8	6	23,6	11,92	2	1,28	21½ S	*β Orionis.*
	13	31,7	5	14	45,7	15	56,5	45,57	1	1,33	7 S	*γ Orionis.*
	20	53,5	5	22	6,6	23	17,0	6,59	1	1,13	13½ S	*δ Orionis.*
	25	9,7	5	26	22,7	27	33,4	22,79	1	1,1	14½ S	*ε Orionis.*
	29	45,3	5	30	58,6	32	9,5	58,66	1	1,13	15½ S	*ζ Orionis.*

EMERSION of JUPITER's *first* Satellite.
Time by Clock (S.) 9h 58′ 16″. Mean Time 12h 3′ 21″,80.
Planet high, but hazy: ☽ up, and near full.

In the YEAR M.DCCCXIII.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	Names or Characters of the STARS AND PLANETS.
FEB. 18	2	57,5	22	4	12,8	5	24,8	19,13	1	1,24	- - -	⊙ 1 L.
	5	10,7	22	6	24,0	7	38,0					⊙ 2 L.
	3	56,0	4	5	10,6	6	22,5	10,60	1	1,33	21¼ S	β *Orionis.*
	22	49,5	5	24	6,7	25	20,7	6,60	3	1,3	31 S	α *Leporis.*
	29	43,5	5	30	56,7	32	7,5	56,76	1	1,9	15¼ S	ξ *Orionis.*
	43	26,7	5	44	40,7	45	51,8	49,65	2	1,5	5 S	κ *Orionis.*
	-	-	6	14	5,5	15	19.4	5,28	8	1,53	31¼ S	β *Can. Maj.*
	17	24,8	6	19	25,8	21	22,7	25,89	2	1,48	65¼ S	*Canopus.*
	35	15,5	6	-	-	37	45,6	31,88	..	....	29¼ S	*Sirius.*
19	6	45,0	22	8	0,0	-	-	6,49	1	3,44	- - -	⊙ 1 L.
	8	58,5	22	10	12,8	11	25,4					⊙ 2 L.

EMERSION of JUPITER's *first* Satellite.
Time by Clock (S.) 4h 27' 48". Mean Time 6h 31' 52",96.
Planet at a convenient altitude: flying clouds and twilight: the Planet was clear at the above time, when the Satellite was visible, but very faint, and could not have been emerged many seconds.

3	54,7	5	5	8,7	-	-	8,81	1	1,6	21¼ S	β *Orionis.*
20	49,5	5	22	2,7	23	13,7	2,81	2	1,82	13¼ S	δ *Orionis.*
29	41,6	5	30	55,0	32	5,6	54,96	1	1,83	15¼ S	ζ *Orionis.*
43	24,7	5	44	38,8	45	50,4	38,85	1	1,73	5 S	α *Orionis.*

EMERSION of JUPITER's *second* Satellite.
Time by Clock (S.) 5h 55' 7'. Mean Time 7h 59' 6",12.
Planet high, and clear: Observation good.

12	46,4	6	14	3,7	15	17,5	3,52	1	1,85	31¼ S	β *Canis Maj.*
35	13,4	6	36	29,7	37	43,5	29,78	1	2,1	29¼ S	*Sirius.*
37	52,0	20	39	10,0	40	25,4	10,06	..	....	32¼ S	♀ *Centrum.* 22h 40' 57",06 mean Time.
20	10	34,8	22	11	49,8	13	2,3	56,32	1	0,37	- - -	⊙ 1 L.
	12	47,7	22	14	2,8	15	14,8					⊙ 2 L.
	3	52,5	5	5	6,7	6	18,4	6,75	1	2,1	21¼ S	β *Orionis.*
	-	-	5	22	0,7	23	11,6	0,77	1	2,05	13¼ S	δ *Orionis.*
	25	3,7	5	26	16,7	27	27,8	16,89	3	1,96	14¼ S	ε *Orionis.*
	29	39,5	5	30	52,8	32	3,8	52,89	1	2,03	15¼ S	ζ *Orionis.*
	43	22,6	5	44	36,5	45	47,6	36,48	1	2,4	5 S	α *Orionis.*
	17	21,4	6	19	22,0	21	18,7	22,11	1	1,85	65¼ S	*Canopus.*
	35	11,8	6	36	28,3	-	-	28,32	1	1,5	29¼ S	*Sirius.*
	42	57,0	20	44	15,0	45	30,4	15,06	..	....	32 S	♀ *Centrum.* 22h 41' 45',68 mean Time.
21	14	23,0	22	15	37,8	16	49,8	44,18	1	1,64	- - -	⊙ 1 L.
	16	35,5	*22	17	50,7	*19	2,8					⊙ 2 L.

Western end of the Axis 0',22 too high.

3	50,0	5	4	5,0	6	16,6	4,82	1	2,0	21¼ S	β *Orionis.*
20	45,4	5	21	58,7	23	9,6	58,76	1	2,0	13¼ S	δ *Orionis.*
25	2,4	5	26	15,5	27	25,7	15,44	1	1,53	14¼ S	ε *Orionis.*
43	20,5	5	44	34,7	45	45,8	34,60	1	1,9	5 S	α *Orionis.*
17	19,5	6	19	19,8	21	16,7	20,06	1	2,03	65¼ S	*Canopus.*
35	9,7	6	36	25,6	37	39,8	25,88	1	2,4	29¼ S	*Sirius.*
48	1,5	20	49	19,4	50	34,6	19,68	..	....	31¼ S	♀ *Centrum.* 22h 42' 56',25 mean Time.
22	18	9,7	22	19	24,5	20	37,6	31,15	1	1,93	- - -	⊙ 1 L.
	20	22,5	*22	21	37,5	*22	49,8					⊙ 2 L.

Western end of the Axis 0',05 too high.

In the YEAR M.DCCCXIII.

DAY OF THE MONTH.		I. Wire.		MERIDIAN.			III. Wire.		Reduction of Wires.	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
		M	S	H	M	S	M	S	S				
FEB.	22	20	43,0	5	21	56,8	23	7,5	56,69	1	2.13	13¼ S	δ *Orionis.*
		24	59,8	5	26	12,8	27	23,5	12,89	1	2,5	14½ S	ε *Orionis.*
		29	35,0	5	30	48,6	31	59,8	- -	2	2.18	15¼ S	ζ *Orionis.*
		43	18,8	5	44	32,5	45	43,8	32,58	1	1,97	5 S	κ *Orionis.*
		17	17,5	6	19	78,0	21	14,5	18,11	1	2.0	65½ S	*Canopus.*
		35	7,5	6	36	23,6	37	37,5	23,75	1	2,17	29½ S	*Sirius.*
		A. M. Examined the Line of Collimation and Meridian adjustment,—found the latter right, but the former a very little out; adjusted it.											
		53	4,0	20	54	21,0	55	36,0	21,41	..	...	31 S	♀ *Centrum.* 22h 44′ 2″,84 mean Time.
	23	21	55,8	22	23	10,7	24	22,8					
		24	8,7	22	25	22,8	26	35,7	17,00	1	2,35	- - -	☉ 1 L.
		3	45,8	5	4	59,7	6	11,6	59,87	2	2,4	21¾ S	☉ 2 L.
		18	22,5	5	19	40,7	20	56,8	40,89	..	...	34 S	β *Orionis.*
		37	6,0	5	38	20,5	39	32,6	20,57	..	...	23 S	β *Leporis.*
		43	33,5	5	45	16,0	46	55,8	15,95	..	...	32 N	κ *Orionis.*
		-	- -	6	19	15,7	-	- -	15,7	1	2,1	65½ S	β *Aurigæ.*
		35	5,5	6	36	21,6	37	35,4	21,73	1	2,03	29¾ S	*Canopus.*
		49	20,5	6	50	44,5	52	5,0	44,38	..	...	41½ S	*Sirius.*
													ε *Can. Maj.*
	24	25	42,0	22	26	56,7	28	8,5					
		27	54,7	22	29	8,5	30	20,5	2,73	1	1,97	- - -	☉ 1 L.
		37	3,5	5	38	18,5	39	29,6	18,23	..	...	23 S	☉ 2 L.
		12	35,8	6	13	53,0	15	7,0	52,90	..	...	31 S	κ *Orionis.*
		17	12,6	6	19	13,7	21	10,0	13,61	..	...	65½ S	β *Canis Maj.*
													Canopus.
	25	29	26,5	22	30	41,0	31	53,4					
		31	38,6	22	32	53,5	34	4,4	46,98	1	2,85	- - -	☉ 1 L.
		3	41,0	5	4	55,3	6	6,6	55,22	2	2.96	21½ S	☉ 2 L.
		18	17,5	5	19	36,0	20	51,5	35,96	2	2,5	34 S	β *Orionis.*
		37	2,0	5	38	16,0	39	27,0	15,92	1	2,2	23 S	β *Leporis.*
		43	28,0	5	45	11,3	46	51,0	11,80	2	2.33	32 N	κ *Orionis.*
		12	33,0	6	13	50,0	15	4,3	50,02	1	2,83	34 S	β *Aurigæ.*
		34	59,6	6	36	16,0	37	29,6	16,00	2	2,86	29¼ S	β *Canis Maj.*
		49	15,0	6	50	38,8	52	0,0	38,91	2	2,7	41½ S	*Sirius.*
		8	5,0	21	9	22,2	10	36,0	22,05	..	...	30¼ S	ε *Can. Maj.*
													♀ *Centrum.* 22h 47′ 21″,25 mean Time.
	26	33	10,5	22	34	25,2	35	37,5					
		35	22,6	22	36	37,0	37	48,5	31,14	1	2,34	- - -	☉ 1 L.
		3	38,4	5	4	52,2	6	4,3	52,47	1	2,66	21½ S	☉ 2 L.
		18	15,0	5	19	33,5	20	49,0	33,46	1	2,6	34 S	β *Orionis.*
		36	59,0	5	38	13,2	39	24,4	13,12	1	2,8	23 S	β *Leporis.*
		43	25,3	5	45	9,0	46	48,5	8,85	1	2,5	32 N	κ *Orionis.*
		12	30,4	6	13	47,4	15	2,0	47,50	1	2,4	31 S	β *Aurigæ.*
		34	57,0	6	36	14,0	37	27,4	13,80	1	2,26	29½ S	β *Can. Maj.*
													Sirius.
		EMERSION of JUPITER'S *first* Satellite. Time by Clock (S.) 6h 49′ 58″. Mean Time 8h 26′ 26″,55. Planet near the Zenith: Clear: Observation good.											
		EMERSION of JUPITER'S *second* Satellite. Time by Clock (S.) 9h 0′ 45″. Mean Time 10h 36′ 48″,90. Planet near the Zenith: flying Clouds; but it was clear at the above time: the Satellite must have emerged some seconds before.											
	27	36	55,0	22	38	10,4	39	21,4					
		9	7,5	22	40	20,5	41	22,0	15,38	1	1,76	- - -	☉ 1 L.
		3	36,0	5	4	50,0	6	2,3	50,25	1	2,2	21½ S	☉ 2 L.
		18	12,3	5	19	31,0	20	46,8	30,99	1	2,46	34 S	β *Orionis.*
		36	56,3	5	38	10,4	39	22,2	10,50	1	2,56	23 S	β *Leporis.*
		43	6,0	5	44	20,2	45	31,3	20,10	..	...	5 S	κ *Orionis.*
													α *Orionis.*

In the YEAR M.DCCCXIII.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names* or *Characters* of the STARS AND PLANETS.
FEB. 27	12	28,0	6	13	45,4	14	49,6	45,30	1	2,26	31 S	β *Canis Maj.*
	34	54,4	6	36	11,5	37	25,4	11,40	1	2,36	29½ S	*Sirius.*
	49	10,0	6	50	33,4	51	54,4	33,56	2	2,46	41½ S	ε *Canis Maj.*
	17	59,3	21	19	16,3	20	30,0	16,17	..	....	29½ S	♀ *Centrum.* 22ʰ 49′ 26″,09 mean Time.
28	40	37,6	22	41	52,2	43	4,3	37,86	1	2,02	- - -	⊙ 1 L.
	42	49,5	22	44	3,4	45	15,0					⊙ 2 L.
	3	33,0	5	4	47,3	5	59,4	47,42	1	2,86	21½ S	β *Orionis.*
	18	0,5	5	19	28,0	20	44,0	28,09	1	2,86	34 S	β *Leporis.*
	36	53,2	5	38	7,7	39	19,4	7,67	1	2,86	23 S	ϰ *Orionis.*
	43	3,4	5	44	17,4	45	28,3	17,50	1	2,8	5 S	α *Orionis.*
	12	25,2	6	13	42,3	14	57,0	42,40	1	2,83	31 S	β *Canis Maj.*
	34	52,3	6	36	9,0	37	23,0	9,03	1	2,33	29½ S	*Sirius.*
	49	7,7	6	50	31,0	51	52,0	31,18	1	2,36	41½ S	ε *Canis Maj.*
			EMERSION of JUPITER's *third* Satellite. Time by Clock (S.) 6ʰ 1′ 54″. Mean Time 9ʰ 30′ 33″,60. Planet near the Zenith; Clear; Observation good.									
	22	54,3	21	24	11,0	25	24,8	10,97	..	....	29½ S	♀ *Centrum.* 22ʰ 50′ 27″,79 mean Time.
MARCH 1	7 A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.											
	44	20,4	22	45	35,0	46	46,4	39,95	1	2,81	- - -	⊙ 1 L.
	46	50,5	22	47	45,0	48	57,0					⊙ 2 L.
	Wound up the Clock: Arc of *Vibration* 1°: 48′.											
	3	30,6	5	4	44,3	5	56,6	44,62	1	2,2	21½ S	β *Orionis.*
	18	7,0	5	19	25,6	20	41,4	25,56	1	2,5	34 S	β *Leporis.*
	36	50,7	5	38	5,0	39	16,5	4,97	1	2,7	23 S	ϰ *Orionis.*
	43	0,6	5	44	15,0	45	26,0	14,82	1	2,5	5 S	α *Orionis.*
	12	22,6	6	13	39,8	14	54,8	39,57	1	2,76	31 S	β *Can. Maj.*
	34	49,4	6	36	6,0	37	20,0	6,05	1	2,96	29½ S	*Sirius.*
	49	5,2	6	50	29,0	51	49,2	28,86	1	2,76	41½ S	ε *Can. Maj.*
	28	37,5	6	59	59,0	1	18,0	59,14	..	....	39½ S	λ *Can. Maj.*
	27	49,0	21	29	5,5	30	19,5	5,54	..	....	29 S	♀ *Centrum.* 22ʰ 51′ 28″,25 mean Time.
2	48	2,3	22	49	16,3	50	28,4	21,99	1	2,36	- - -	⊙ 1 L.
	50	13,0	22	51	27,3	52	39,0					⊙ 2 L.
	18	4,4	5	19	23,0	20	39,5	23,19	1	2,33	34 S	β *Leporis.*
	36	48,2	5	38	2,6	39	15,0	2,77	1	2,18	23 S	ϰ *Orionis.*
	42	58,4	5	44	12,4	45	24,0	12,48	1	2,26	5 S	α *Orionis.*
	12	20,4	6	13	37,0	-	-	37,27	1	2,25	31 S	β *Can. Maj.*
	34	47,0	6	36	3,5	37	17,5	3,58	1	2,46	29½ S	*Sirius.*
	49	2,5	6	50	26,0	51	46,7	26,06	1	2,52	41½ S	ε *Can. Maj.*
	58	35,4	6	59	57,0	1	15,0	56,86	1	2,56	39½ S	δ *Can. Maj.*
	32	42,5	21	33	59,0	35	12,3	58,91	..	....	28½ S	♀ *Centrum.* 22ʰ 52′ 27″,10 mean Time.
3	51	44,5	22	52	57,8	54	10,4	3,96	1	1,93	- - -	⊙ 1 L.
	53	55,0	22	55	9,3	56	20,4					⊙ 2 L.
	18	2,3	5	19	23,8	20	36,0	20,69	1	2,6	34 S	β *Leporis.*
	36	45,4	5	38	0,5	39	12,0	0,27	1	2,63	23 S	ϰ *Orionis.*
	42	55,5	5	44	10,0	45	25,0	9,71	1	2,6	5 S	α *Orionis.*
	12	18,0	6	13	35,2	14	53,0	35,30	1	2,11	31 S	β *Can. Maj.*
	EMERSION of JUPITER's *fourth* Satellite. Time by Clock (S.) 6ʰ 50′ 19″. Mean Time 8ʰ 7′ 27″,29. Planet high, but hazy; Observation not satisfactory.											

In the YEAR M.DCCCXIII.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names* or *Characters* of the STARS AND PLANETS.
MARCH 3	57	35,0	21	38	51,3	40	4,0	51,12	..	— ...	28¾ S	♀ *Centrum.* 22h 55′ 21″,90 mean Time.
4	55	25,4	22	56	39,5	57	51,0					⊙ 1 L.
	57	36,4	22	58	50,5	0	1,5	44,97	1	2,39	- - -	⊙ 2 L.
	18	0,0	5	19	18,4	20	34,6	18,41	1	2,28	34 S	β *Leporis.*
	36	43,2	5	37	58,5	39	9,7	58,05	1	2,28	23 S	ϰ *Orionis.*
	42	53,0	5	44	7,6	45	22,0	7,31	1	2,3	5½ S	α *Orionis.*
	12	15,0	6	13	32,0	14	47,6	32,2	1	2,9	31 S	β *Can. Maj.*
	34	42,2	6	35	59,0	37	12,4	58,85	1	2,0	29½ S	*Sirius.*
	48	58,0	6	50	21,4	51	42,0	21,46	2	2,3	41½ S	ε *Can. Maj.*
	58	30,4	6	59	52,4	1	11,0	52,31	2	2,26	39¼ S	δ *Can. Maj.*
	14	28,3	7	15	47,5	17	8,0	47,33	..	- - -	42 S	η *Can. Maj.*
	42	27,5	21	43	42,7	44	54,8	42,64	..	...	28 S	♀ *Centrum.* 22h 54′ 22″,10 mean Time.
5	59	6,2	23	0	20,3	1	31,2					⊙ 1 L.
	1	16,8	23	2	30,3	3	42,0	25,98	1	2,59	- - -	⊙ 2 L.
	17	57,3	5	19	16,0	20	31,5	15,91	1	2,53	34 S	β *Leporis.*
	36	41,0	5	37	55,3	39	7,0	55,52	1	2,63	23 S	ϰ *Orionis.*
	42	51,3	5	44	5,0	-	-	5,16	1	2,15	5¾ S	α *Orionis.*
	12	13,0	6	13	30,3	14	44,0	30,10	1	2,23	31 S	β *Can. Maj.*
	34	40,0	6	35	56,6	37	10,6	56,55	1	2,53	29½ S	*Sirius.*

EMERSION of JUPITER's *first* Satellite.
Time by Clock (S.) 9h 11′ 49″. Mean Time 10h 20′ 37″,67.
Planet near the Zenith: Clear: Observation good.

EMERSION of JUPITER's *second* Satellite.
Time by Clock (S.) 12h 5′ 33″. Mean Time 13h 13′ 58″,01.
Planet sufficiently high, and clear: Observation good.

	47	16,4	21	48	32,5	49	45,7	32,49	..	— ...	27¼ S	♀ *Centrum.* 22h 55′ 18″,04 mean Time.
6	2	46,0	23	4	0,6	5	12,5					⊙ 1 L.
	-	-	23	6	12,5	7	23,5	6,54	1	1,54	- - -	⊙ 2 L.
	12	10,7	6	13	27,7	14	42,7	27,72	1	2,3	31 S	β *Can. Maj.*
	34	38,4	6	35	54,3	37	7,6	54,35	1	2,3	29½ S	*Sirius.*
	48	53,6	6	50	17,2	51	37,5	16,98	2	2,28	41½ S	ε *Can. Maj.*
	58	20,0	6	59	47,6	1	6,0	47,56	2	2,36	39¼ S	δ *Can. Maj.*
	32	5,6	21	53	21,4	54	34,7	21,49	..	...	27½ S	♀ *Centrum.* 22h 56′ 11″,82 mean Time.
7	6	27,0	23	7	40,6	8	52,4					⊙ 1 L.
	8	37,0	23	9	50,0	11	2,3	46,05	1	2,59	- - -	⊙ 2 L.
	36	36,6	5	37	51,0	39	2,8	51.05	2	2,15	23 S	ϰ *Orionis.*
	42	46,6	5	44	1,3	45	12,0	0,98	2	2,11	5½ S	α *Orionis.*
	12	8,8	6	13	25,5	14	40,0	25,65	1	2,03	31 S	β *Canis Maj.*
	34	36,0	6	35	52,0	37	6,0	52,20	1	2,10	29½ S	*Sirius.*
	48	51,2	6	50	15,0	51	35,2	14,86	1	2,1	41½ S	ε *Can. Maj.*
	58	24,0	6	59	45,5	1	4,0	45,51	1	2,03	39¼ S	δ *Can. Maj.*
	14	16,4	7	15	40,5	17	1,4	40,46	3	2,28	42 S	η *Can. Maj.*

Examined the Line of Collimation and Meridian adjustment,—found both right.

	56	51,4	21	58	10,0	59	22,8	10,03	..	— ...	27 S	♀ *Centrum.* 22h 57′ 5″,95 mean Time.
8	10	7,3	23	11	20,4	12	31,7					⊙ 1 L.
	12	16,8	23	13	30,5	14	41,4	25,60	1	2,15	- - -	⊙ 2 L.
	36	34,2	5	37	48,8	39	0,5	48,75	1	2,3	23 S	ϰ *Orionis.*
	42	44,7	5	43	58,8	45	9,5	58,63	1	2,3	5½ S	α *Orionis.*
	24	34,2	6	25	50,0	27	2,3	49,82	..	...	3½ N	γ *Geminorum.*
	34	33,4	6	35	50,0	37	4,0	50,05	1	2,2	29½ S	*Sirius.*
	48	49,0	6	50	12,3	51	33,4	12,51	1	2,23	41½ S	ε *Can. Maj.*
	58	21,8	6	59	43,3	1	2,0	43,36	1	2,13	39¼ S	δ *Can. Maj.*

In the YEAR M.DCCCXIII.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.		Names or Characters of the STARS AND PLANETS.
MARCH 8	14	14,0	7	15	38,4	16	59,0	58,21	1	—	42	S	*η Canis Maj.*
	1	42,9	22	2	58,7	4	11,2	*58,59*	..	...	27	S	*♀ Centrum.* 22h 58′ 0″,04 mean Time.
9	13	45,4	23	15	0,5	16	11,0	5,0	1	2,80	-	- -	☉ 1 L.
	15	56,6	23	17	10,0	18	21,0						☉ 2 L.
	42	42,2	5	43	56,3	45	7,8	56,33	1	2,23	5½	S	*α Orionis.*
	24	32,0	6	25	48,5	27	0,0	48.53	1	2,0	3½	N	*γ Geminorum.*
	34	31,3	6	35	48,0	37	1,5	47,90	1	2,2	29½	S	*Sirius.*
	48	47,0	6	50	10,4	51	31,0	10,46	1	2,1	41½	S	*ε Can. Maj.*
	58	19,3	6	59	41,0	1	0,0	41,09	1	2,27	39½	S	*δ Can. Maj.*
	14	11,7	7	15	36,0	16	57,0	35,98	1	2,23	42	S	*η Can. Maj.*
10	17	25,0	23	18	38,8	19	50,4	43,85	1	2,05	-	- -	☉ 1 L.
	19	34,4	23	20	49,0	22	0,0						☉ 2 L.
	42	40,0	5	43	54,6	45	5,5	54,35	1	2,07	5½	S	*α Orionis.*
	11	12,5	22	12	28,5	13	40,4	28,5	..	...	25½	S	*♀ Centrum.* 22h 59′ 40″,39 mean Time.
11	21	3,5	23	22	17,4	23	28,5	22,23	1	2,12	-	- -	☉ 1 L.
	23	13,6	23	24	27,6	25	37,3						☉ 2 L.
	42	38,0	5	43	52,3	45	3,4	52,18	2	2,17	5½	S	*α Orionis.*
	12	0,5	6	13	17,0	14	31,0	17,13	2	2,14	31	S	*β Can. Maj.*
	34	27,0	6	35	43,4	36	57,0	43,40	2	2,23	29½	S	*Sirius.*
	48	42,4	6	50	6,0	51	27,0	6,11	2	2,17	41½	S	*ε Can. Maj.*
	-	-	7	-	-	8	37,4	19,47	..	...	6½	N	☽ 1 L. 7h 38′ 4″,80 mean Time.
	14	7,0	7	15	31,7	16	52,0	31,36	2	2,33	42	S	*η Can. Maj.*
	27	6,3	7	28	20,0	29	30,5	19,89	..	...	7½	S	*Procyon.*
		Hazy	22		Hazy	18	27,3	14,74	..	...	25	S	*♀ Centrum.* 23h 0′ 32″,46 mean Time.
12	24	41,5	23	25	56,0	27	6,6	0,71	1	1,72	-	- -	☉ 1 L.
	26	52,0	23	28	5,5		Hazy						☉ 2 L.
	42	35,8	5	43	50,4	45	1,0	50,03	1	2,17	5½	S	*α Orionis.*
	11	58,0	6	13	15,0	14	29,4	15,05	1	2,03	31	S	*β Can. Maj.*
	24	26,2	6	25	41,8	26	54,6	41,70	3	2,05	3½	N	*γ Geminorum.*
	34	25,0	6	35	42,0	36	55,5	41,83	1	1,63	29½	S	*Sirius.*
	48	40,8	6	50	4,5	51	25,3	4,53	1	1,53	41½	S	*ε Can. Maj.*
	58	13,5	6	59	35,4	0	54,0	35,34	3	1,93	39½	S	*δ Can. Maj.*
	14	5,5	7	15	30,0	16	50,5	29,76	1	1,57	42	S	*η Can. Maj.*

EMERSION of JUPITER'S *first* Satellite.
Time by Clock (S.) 11h 54′ 7″. Mean Time 12h 15′ 21″,18.
Planet high: flying Clouds: ☽ near ♈: Observation good.

13	28	20,8	23	-	-	-	-	39,04	1	1,47	-	- -	☉ 1 L.
	-	-	23	31	43,3	32	55,0						☉ 2 L.
	11	56,0	6	13	13,3	14	28,0	13,35	1	1,7	31	S	*β Canis Maj.*
	-	-	6	25	40,0	26	52,5	40,00	1	1,65	3½	N	*γ Geminorum.*
	-	-	6	35	40,0	36	54,0	40,16	1	1,75	29½	S	*Sirius.*
	48	39,0	6	50	2,6	51	23,3	2,63	1	1,9	41½	S	*ε Can. Maj.*
	-	-	6	59	33,4	0	54,0	33,35	1	2,0	39½	S	*δ Can. Maj.*
	14	4,0	7	15	28,0	-	-	27,87	1	1,75	42	S	*η Can. Maj.*
	27	2,5	7	28	17,0	29	28,0	16,81	2	1,55	7½	S	*Procyon.*
14	31	58,0	23	33	11,5	34	22,6	16,35	1	2,29	-	- -	☉ 1 L.
	34	7,0	23	35	21,0	36	32,...						☉ 2 L.
	11	54,5	6	13	11,3	14	26,0	11,47	1	1.83	31	S	*β Can. Maj.*
	24	22,5	6	25	38,4	26	50,0	38,01	1	2,05	3½	N	*γ Geminorum.*
	48	37,4	6	50	0,5	51	21,3	0,68	1	1,9	41½	S	*ε Can. Maj.*
	58	9,3	6	59	31,4	0	50,0	31,29	1	2,0	39½	S	*δ Can. Maj.*
	-	-	7	15	26,0	16	46,0	25,70	1	2,0	42	S	*η Can. Maj.*
	27	0,5	7	28	15,0	29	25,8	14,76	1	2,07	7½	S	*Procyon.*
	54	5,5	9	55	22,4	56	36,0	22,30	..	...	-	- -	☽ 1 L. 10h 28′ 58″,24 mean Time.

IMMERSION of REGULUS behind the dark Limb of the ☽.
Time by Clock (S.) 10h 18′ 0″,5. Apparent Time 10h 41′ 59″,54.

In the YEAR M.DCCCXIII.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
MARCH 14	EMERSION of REGULUS from the bright Limb of the ☽. Time by Clock (S.) 11h 23'. Apparent Time 11h 46' 48",48. The Moon near the Zenith, and in an awkward position in consequence: the Immersion certain to half a second; but at the time of the Emersion, clouds were flying over the Moon, and when the Star was first seen, it had probably been emerged 4 or 5 seconds.											
15	35	35,4	23	36	49,6	38	0,4	54,14	1	1,51	- - -	☉ 1 L.
	37	45,4	23	38	59,0	40	9,6					☉ 2 L.
	11	52,4	6	13	9,5	14	24,0	9,55	1	1,97	51 S	β *Can. Maj.*
	24	20,4	6	25	36,4	26	48,5	36,11	1	1,87	5½ N	γ *Geminorum.*
	34	20,4	6	35	36,4	36	49,6	36,40	1	1,75	29½ S	*Sirius.*
	48	35,4	6	49	50,0	51	19,4	58,96	1	1,8	41½ S	ε *Can. Maj.*
	58	7,4	6	59	22,4	0	48,0	29,31	1	1,97	39½ S	δ *Can. Maj.*
	26	59,0	7	28	13,0	29	23,5	12,81	1	1,93	7½ S	*Procyon.*
	3	24,0	8	4	42,6	5	58,8	- -	..	....	8½ N	♑ *Centrum* 8h 34' 42",21 mean Time.
	34	46,0	22	56	0,5	37	12,6	0,60	..	....	25½ S	♀ *Centrum.* 23h 3' 38",44 mean Time.
16	39	12,5	23	40	26,4	41	38,0	31,37	1	1,80	- - -	☉ 1 L.
	41	22,3	23	42	36,0	43	47,5					☉ 2 L.
	11	50,5	6	13	8,0	14	22,0	7,82	1	1,8	31 S	β *Can. Maj.*
	24	18,7	6	25	34,5	26	47,0	34,36	1	1,7	5½ N	γ *Geminorum.*
	34	18,2	6	35	34,0	36	48,0	34,25	1	2,07	29½ S	*Sirius.*
	48	33,0	6	49	57,0	51	17,6	56,91	1	2,07	41½ S	ε *Can. Maj.*
	58	6,0	6	59	27,5	0	46,0	27,51	1	1,77	39½ S	δ *Can. Maj.*
	13	58,6	7	15	22,5	16	43,3	22,48	2	1,55	42 S	ν *Can. Maj.*
	19	52,5	7	21	19,0	22	43,0	19,18	..	....	19½ N	*Castor.*
	26	57,0	7	28	10,5	29	21,6	10,59	1	2,13	7½ S	*Procyon.*
	31	8,0	7	32	32,5	33	53,0	32,17	..	....	15½ N	*Pollux.*
	3	14,6	8	4	33,0	5	48,8	33,09	..	....	8 N	♑ *Centrum.* 8h 30' 38",63 mean Time.
	39	25,5	22	40	40,3	41	52,0	40,69	..	....	23 S	♀ *Centrum.* 23h 4' 23",25 mean Time.
17	42	50,0	23	44	4,0	45	15,2	9,14	1	1,13	- - -	☉ 1 L.
	45	0,3	23	46	14,3	47	24,0					☉ 2 L.
	24	16,8	6	25	33,0	26	45,5	32,76	1	1,63	5½ N	γ *Geminorum.*
	34	16,3	6	35	32,4	36	46,0	32,48	1	1,83	29½ S	*Sirius.*
	48	31,0	6	49	55,2	51	15,6	55,01	1	1,93	41½ S	ε *Can. Maj.*
	58	4,3	6	59	25,6	0	44,4	25,74	1	1,73	39½ S	δ *Can. Maj.*
	13	56,5	7	15	20,4	16	41,5	20,46	1	2,0	42 S	ν *Can. Maj.*
	19	50,4	7	21	17,0	22	41,0	17,16	1	2,08	19½ N	*Castor.*
	26	55,0	7	28	8,7	29	20,0	8,79	1	1,8	7½ S	*Procyon.*
	31	6,2	7	32	30,4	33	51,0	30,39	1	1,9	15½ N	*Pollux.*
	3	5,5	8	4	24,0	5	40,0	24,23	..	....	8 N	♑ *Centrum.* 8h 26' 31",99 mean Time.
	39	5,0	22	40	19,2	41	31,3	19,37	..	....	22½ S	♀ *Centrum.* 23h 5' 6",91 mean Time.
18	46	27,0	23	47	40,5	48	51,4	45,25	1	2,49	- - -	☉ 1 L.
	48	36,3	23	49	50,3	51	0,6					☉ 2 L.
	11	46,5	6	13	4,4	14	18,0	4,02	2	1,94	31 S	β *Can. Maj.*
	24	14,6	6	25	30,8	26	44,0	30,73	1	1,97	5½ N	γ *Geminorum.*
	34	14,4	6	35	30,5	36	44,0	30,55	1	1,93	29½ S	*Sirius.*
	48	29,0	6	49	53,0	51	13,5	52,88	1	2,1	41½ S	ε *Can. Maj.*
	58	2,4	6	59	23,5	0	42,4	23,71	1	2,0	39½ S	δ *Can. Maj.*
	13	54,5	7	15	18,3	16	39,4	18,38	1	2,07	42 S	ν *Can. Maj.*
	19	48,3	7	21	15,0	22	39,0	15,13	1	2,03	19½ N	*Castor.*
	26	53,0	7	28	7,0	29	18,0	6,94	1	1,9	7½ S	*Procyon.*
	31	4,0	7	32	28,2	33	48,8	28,07	1	2,2	15½ N	*Pollux.*
	2	56,0	8	4	15,5	5	31,0	15,24	..	....	8 N	♑ *Centrum.* 8h 22' 32",64 mean Time.
	48	42,0	22	49	56,3	51	8,6	56,50	..	....	22 S	♀ *Centrum.* 23h 5' 50",03 mean Time.
19	50	2,5	23	51	16,4	52	27,5	21,23	1	2,52	- - -	☉ 1 L.
	52	12,5	23	53	26,0	54	37,0					☉ 2 L.
	24	12,5	6	25	28,8	26	42,0	28,71	1	2,03	5½ N	γ *Geminorum.*
	34	12,2	6	35	28,6	36	42,0	28,55	1	2,03	29½ S	*Sirius.*
	48	26,8	6	49	50,8	51	11,0	50,61	1	2,3	41½ S	ε *Can. Maj.*
	57	59,7	-	-	-	0	40,0	21,38	1	2,55	39½ S	δ *Can. Maj.*
	13	52,4	7	15	15,5	16	37,0	15,86	1	2,43	42 S	ν *Can. Maj.*
	19	45,8	7	21	12,6	22	36,4	12,66	1	2,5	19½ N	*Castor.*
	26	51,0	7	28	4,5	29	15,5	4,56	1	2,33	7½ S	*Procyon.*

In the YEAR M.DCCCXIII.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names* or *Characters* of the STARS AND PLANETS.
MARCH 19	31	1,5	7	32	25,7	33	46,0	25,49	1	2,6	15¼ N	*Pollux.*
	A. M. Shortened the Pendulum 3 Divisions.—Put the Clock on about 1 minute.											
	54	8,5	22	55	23,0	56	34,0	23,0	..	....	21½ S	♀ *Centrum.* 23h 6′ 31″,66 mean Time.
20	54	27,5	23	55	41,2	56	52,5					☉ 1 L.
	56	37,0	23	57	51,0	59	1,5	46,03	..	....	- - -	☉ 2 L.
	24	59,2	6	26	15,0	27	29,0	15,24	..	....	3½ N	*γ Geminorum.*
	49	14,4	6	50	38,0	51	58,5	37,98	..	....	41½ S	*ε Can. Maj.*
	58	47,0	7	0	8,8	1	27,4	8,66	..	....	39½ S	*δ Can. Maj.*
	14	39,5	7	16	3,3	17	24,4	3,38	..	....	42 S	*η Can. Maj.*
	20	33,0	7	22	0,0	23	25,2	59,86	..	....	19¾ N	*Castor.*
	27	38,0	7	28	52,2	30	2,8	51,99	..	....	7½ S	*Procyon.*
	31	49,3	7	33	12,8	34	33,3	12,82	..	....	15½ N	*Pollux.*
	3	32,2	8	4	51,0	6	7,0	51,03	..	....	8 N	♀ *Centrum.* 8h 14′ 31″,99 mean Time.
	58	47,6	23	0	2,0	1	13,6	2,0	..	....	21 S	♀ *Centrum.* 23h 7′ 16″,09 mean Time.
21	58	6,5	23	59	20,5	0	30,4					☉ 1 L.
	0	15,8	24	1	29,8	2	40,4	24,67	1	+0,44	- - -	☉ 2 L.
	24	59,0	6	26	16,0	27	29,3	15,76	1	0,37	3½ N	*γ Geminorum.*
	34	59,0	6	36	15,5	37	29,4	15,55	1	0,7	29½ S	*Sirius.*
	49	15,0	6	50	38,5	51	59,0	38,51	1	0,53	41½ S	*ε Can. Maj.*
	58	47,0	7	0	8,8	1	28,0	8,91	1	0,2	39½ S	*δ Can. Maj.*
	14	39,5	7	16	3,7	17	24,7	3,66	1	0,23	42 S	*η Can. Maj.*
	20	34,0	7	22	0,3	23	24,0	0,46	1	0,7	19½ N	*Castor.*
	27	38,5	7	28	52,4	30	3,0	52,26	1	0,3	7½ S	*Procyon.*
	31	50,0	7	33	13,0	34	33,8	13,24	1	0,4	15½ N	*Pollux.*
	3	30,0	8	4	47,8	6	4,0	48,47	..	....	8 N	♀ *Centrum.* 8h 10′ 35″,09 mean Time.
	EMERSION of JUPITER's *first* Satellite, Time by Clock (S.) 8h 33′ 30″. Mean Time 8h 39′ 15″,40. Planet near the Zenith: Clear: Observation good.											
	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.											
	3	26,0	23	4	41,0	5	52,2	40,50	..	....	20½ S	♀ *Centrum.* 23h 7′ 38″,17 mean Time.
22	1	45,5	0	2	59,0	4	10,0					☉ 1 L.
	3	55,0	0	5	8,5	6	19,0	3,74	1	+0,97	- - -	☉ 2 L.
	24	59,5	6	26	16,0	27	29,8	16,03	1	0,83	3½ N	*γ Geminorum*
	34	59,4	6	36	16,0	37	30,0	16,05	1	0,47	29½ S	*Sirius.*
	49	15,4	6	50	38,7	51	59,0	38,71	1	0,2	41½ S	*ε Can. Maj.*
	58	47,4	7	0	9,3	1	28,0	9,26	1	0,3	39½ S	*δ Can. Maj.*
	14	39,6	7	16	4,0	17	25,0	3,91	1	0,47	42 S	*η Can. Maj.*
	20	34,2	7	22	1,0	23	24,5	0,98	1	0,47	19½ N	*Castor.*
	27	39,0	7	28	53,0	30	3,3	52,76	1	0,47	7½ S	*Procyon.*
	31	50,8	7	33	13,7	34	34,3	13,90	1	0,67	15½ N	*Pollux.*
	3	26,7	8	4	45,5	6	1,3	45,49	..	....	8 N	♀ *Centrum.* 8h 6′ 33″,24 mean Time.
	8	4,0	23	9	18,0	10	29,4	18,04	..	....	20 S	♀ *Centrum.* 23h 8 40′,25 mean Time.
23	5	23,0	0	6	37,4	7	48,3	41,90	1	0,16	- - -	☉ 1 L.
	7	33,0	0	8	46,8	9	57,5					☉ 2 L.
	25	0,0	6	26	16,7	27	30,0	16,54	1	0,47	3½ N	*γ Geminorum.*
	35	0,3	6	36	16,4	37	30,0	16,48	1	0,43	29½ S	*Sirius.*
	49	15,4	6	50	39,0	51	59,5	38,98	1	0,27	41½ S	*ε Can. Maj.*
	58	48,0	7	0	9,8	1	28,5	9,79	1	0,53	39½ S	*δ Can. Maj.*
	14	40,0	7	16	4,0	17	25,4	4,11	1	0,27	42 S	*η Can. Maj.*
	20	34,4	7	22	1,4	23	24,8	1,31	1	0,3	19½ N	*Castor.*
	27	39,0	7	28	53,0	30	4,0	52,94	1	0,23	7½ S	*Procyon.*
	31	51,0	7	33	13,8	34	34,4	14,02	1	0,13	15½ N	*Pollux.*

In the YEAR M.DCCCXIII.

DAY OF THE MONTH.	I. Wire. M S	MERIDIAN. H M S	III. Wire. M S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
MARCH 23	EMERSION of JUPITER's *second* Satellite. Time by Clock (S.) 7h 49′ 35″. Mean Time 7h 47′ 29″,87. Planet near the Zenith: Clear: Observation good.							
	3 24,5	8 4 43,0	5 58,7	43,04	..	...	8 N	♈ *Centrum.* 8h 2′ 34″,81 mean Time.
	12 41,4	23 18 55,4	15 6,0	55,24	..	...	19¼ S	♀ *Centrum.* 23h 9′ 18″,47 mean Time.
24	9 2,4	0 10 15,0	11 26,0	20,09	1	+0,19	- - -	⊙ 1 L.
	11 11,8	0 12 24,5	13 35,4					⊙ 2 L.
	35 0,4	6 36 16,8	37 30,0	16,45	1	0,0	29½ S	*Sirius.*
	49 15,5	6 50 39,0	51 59,5	39,01	1	0,03	41½ S	ε *Can. Maj.*
	58 48,9	7 0 10,0	1 29,0	10,09	1	0,33	39½ S	δ *Can. Maj.*
	14 40,5	7 16 4,6	17 26,0	4,68	1	0,57	42 S	η *Can. Maj.*
	20 34,5	7 22 1,5	23 25,0	1,43	1	0,13	19½ N	*Castor.*
	27 39,3	7 28 53,0	30 4,0	53,01	1	0,1	7½ S	*Procyon.*
	31 51,0	7 33 14,0	34 34,3	14,10	1	0,03	15½ N	*Pollux.*
	3 22,3	8 4 41,0	5 56,3	40,89	..	...	8 N	♈ *Centrum.* 7h 58′ 36″,39 mean Time.
	17 17,5	23 18 31,5	19 42,5	31,44	..	...	19 S	♀ *Centrum.* 23h 9′ 57″,21 mean Time.
25	12 39,2	0 13 53,3	15 4,4	58,10	1	0,11	- - -	⊙ 1 L.
	14 49,5	0 16 3,0	17 13,8					⊙ 2 L.
	35 0,0	6 36 16,4	37 30,0	16,40	1	0,1	29½ S	*Sirius.*
	49 15,5	6 50 39,4	52 0,0	39,33	1	0,3	41½ S	ε *Can. Maj.*
	58 48,9	7 0 10,0	1 29,0	10,09	1	0,0	39½ S	δ *Can. Maj.*
	14 40,6	7 16 4,6	17 25,5	4,58	1	−0,19	42 S	η *Can. Maj.*
	20 34,8	7 22 1,5	23 25,0	1,51	1	+0,1	19½ N	*Castor.*
	31 50,4	7 33 14,0	34 34,4	13,97	1	0,17	15½ N	*Pollux.*
	3 22,8	8 4 41,0	5 57,0	41,19	..	...	8 N	♈ *Centrum.* 7h 51′ 40″,98 mean Time.
	21 53,0	23 23 6,8	24 18,0	6,84	..	...	18½ S	♀ *Centrum.* 23h 10 36″,18 mean Time.
26	16 17,6	0 17 31,5	18 42,5	36,16	1	0,16	- - -	⊙ 1 L.
	18 27,0	0 19 41,0	20 52,0					⊙ 2 L.
	- - -	6 36 17,0	37 30,0	16,66	1	0,3	29½ S	*Sirius.*
	49 15,4	6 50 39,0	51 59,8	39,06	1	−0,23	41½ S	ε *Can. Maj.*
	58 48,2	7 0 10,0	1 29,0	10,06	1	0,03	39½ S	δ *Can. Maj.*
	14 40,4	7 16 4,4	17 25,5	4,43	1	0,13	42 S	η *Can. Maj.*
	20 35,0	7 22 1,5	23 25,3	1,63	1	+0,17	19½ N	*Castor.*
	31 50,3	7 33 14,3	34 34,5	14,12	1	0,10	15½ N	*Pollux.*
	3 22,5	8 4 42,0	5 57,4	41,71	..	...	8 N	♈ *Centrum.* 7h 50′ 45″,47 mean Time.
27	19 55,5	0 21 9,7	22 20,5	13,93	1	−0,13	- - -	⊙ 1 L.
	22 4,5	0 23 18,5	24 29,5					⊙ 2 L.
	49 15,0	6 50 39,3	52 0,7	39,16	1	+0,03	41½ S	ε *Can. Maj.*
	58 48,4	7 0 10,0	1 29,0	10,09	1	0,03	39½ S	δ *Can. Maj.*
	14 40,4	7 16 4,5	17 25,0	4,36	1	−0,13	42 S	η *Can. Maj.*
	20 34,8	7 22 1,6	23 25,3	1,63	1	0,03	19½ N	*Castor.*
	27 39,0	7 28 53,2	30 4,4	53,14	1	0,30	7½ S	*Procyon.*
	31 50,5	7 33 14,5	34 34,5	14,27	1	+0,13	15½ N	*Pollux.*
	3 24,5	8 4 42,4	5 58,4	42,61	..	...	8 N	♈ *Centrum.* 7h 46′ 50″,56 mean Time.
28	23 34,2	0 24 47,5	25 58,4	51,98	1	0,05	- - -	⊙ 1 L.
	25 42,5	0 26 56,5	28 7,4					⊙ 2 L.
	49 15,4	6 50 39,3	51 59,8	39,21	1	0,07	41½ S	ε *Can. Maj.*
	58 48,5	7 0 10,0	1 29,3	10,15	1	0,10	39½ S	δ *Can. Maj.*
	14 40,6	7 16 4,4	17 25,3	4,43	1	0,13	42 S	η *Can. Maj.*
	20 34,7	7 22 1,4	23 25,6	1,43	1	−0,20	19½ N	*Castor.*
	27 39,0	7 28 53,0	30 4,0	52,94	1	0,20	7½ S	*Procyon.*
	31 50,4	7 33 14,0	34 34,4	13,97	1	0,23	15½ N	*Pollux.*
	3 25,5	8 4 44,0	5 59,4	43,96	..	...	8 N	♈ *Centrum.* 7h 42′ 55″,92 mean Time.
	EMERSION of JUPITER's *first* Satellite. Time by Clock (S.) 10h 55′ 48″. Mean Time 10h 38′ 52″,27. Planet high, and clear: Observation good.							

In the YEAR M.DCCCXIII.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
MARCH 29	27	11,0	0	28	24,5	29	36,5	29,40	1	0,58		⊙ 1 L.
	29	20,0	0	30	34,0	31	45,0					⊙ 2 L.
	58	48,4	7	0	10,3	1	28,8	10,21	1	0,03	39½ S	δ *Can. Maj.*
	14	40,5	7	16	4,4	17	25,3	4,41	1	0,03	42 S	η *Can. Maj.*
	20	34,4	7	22	1,3	23	25,0	1,31	1	0,13	19¼ N	*Castor.*
	27	39,4	7	28	53,4	30	4,0	53,24	1	+0,27	7½ S	*Procyon.*
	31	59,5	7	33	14,4	34	34,4	14,20	1	0,17	15½ N	*Pollux.*
30	30	49,5	0	32	3,4	33	15,4					
	32	59,0	0	34	12,5	35	23,7	7,95	1	0,55		⊙ 1 L.
	58	48,0	7	0	9,8	1	29,0	9,91	1	−0,23	39½ S	⊙ 2 L.
	14	40,5	7	16	4,4	17	25,0	4,33	1	0,1	42 S	δ *Can. Maj.*
	20	34,5	7	22	1,6	23	24,8	1,43	1	+0,07	19¼ N	η *Can. Maj.*
	27	39,5	7	28	53,0	30	4,0	53,06	1	−0,10	7½ S	*Castor.*
	31	50,7	7	33	14,4	34	34,4	14,25	1	+0,07	15½ N	*Procyon.*
	3	32,0	8	4	50,4	6	6,0	50,43	..	...	8 N	*Pollux.*
												♀ *Centrum.* 7ʰ 35′ 10″,60 mean Time.

EMERSION of JUPITER's *second* Satellite.
Time by Clock (S.) 10ʰ 55′ 40″. Mean Time 10ʰ 25′ 32″,22.
Planet high, and clear at the time of the Eclipse: Observation good.

31	34	27,7	0	35	42,0	36	53,0					
	36	37,0	0	37	50,5	39	2,0	46,26	1	0,11		⊙ 1 L.
	58	48,4	7	0	10,0	1	28,8	10,06	1	0,13	39½ S	⊙ 2 L.
	14	40,8	7	16	4,7	17	25,0	4,56	1	0,20	42 S	δ *Can. Maj.*
	20	35,0	7	22	1,6	23	24,8	1,56	1	0,17	19¼ N	η *Can. Maj.*
	27	39,4	7	28	53,0	30	4,4	53,14	1	0,10	7½ S	*Castor.*
	31	51,0	7	33	14,3	34	34,4	14,27	1	0,07	15½ N	*Procyon.*
	3	36,3	8	4	54,5	6	10,4	54,66	..	...	8 N	*Pollux.*
												♀ *Centrum.* 7ʰ 31′ 18″,63 mean Time.
APRIL 1	38	6,0	0	39	20,5	40	31,5	24,99	1	0,53		⊙ 1 L.
	40	16,0	0	41	29,6	42	40,7					⊙ 2 L.

Wound up the Clock: Arc of Vibration 1°: 38′.

	20	35,0	7	22	1,6	23	25,4	1,73	1	0,2	19¼ N	*Castor.*
	27	40,0	7	28	53,4	30	4,4	53,30	1	0,33	7½ S	*Procyon.*
	31	51,0	7	33	14,4	34	34,6	14,39	1	0,10	15½ N	*Pollux.*
	57	38,5	7	58	57,7	0	15,6	57,7	..	...	37 S	ρ *Navis.*
	3	41,3	8	4	59,6	6	16,0	59,90	..	...	8 N	♀ *Centrum.* 7ʰ 27′ 27″,61 mean Time.
	36	52,0	8	38	56,5	40	57,0	56,71	..	...	67½ S	δ *Navis.*
	43	40,0	8	44	53,6	46	4,8	58,71	..	...	6½ S	ζ *Hydræ.*
	-	-	8	50	12,0	51	57,4	12,11	..	...	94½ N	κ *Ursæ Maj.*
	2	48,0	9	4	0,5	5	12,5	- -	..	...	10½ S	θ *Hydræ.*
2	41	45,5	0	42	59,2	44	10.6					
	43	55,0	0	45	8,8	46	19,5	4,04	1	0,75		⊙ 1 L.
	20	35,8	7	22	2,0	23	26,0	2,28	1	0,6	19¼ N	⊙ 2 L.
	27	40,4	7	28	54.0	30	5,0	54.05	1	0,47	7½ S	*Castor.*
	31	51,8	7	33	15.0	34	35,3	15,07	1	0,7	15½ N	*Procyon.*
	57	39,0	7	58	58,8	0	16,2	59,00	1	0,73	37 S	*Pollux.*
	3	47,8	8	5	5,8	6	21,0	5,87	..	...	8 N	ρ *Navis.*
	36	52,4	8	38	57,0	40	57,3	57,13	1	0,4	67 S	♀ *Centrum.* 7ʰ 23′ 36″,67 mean Time.
	43	40,2	8	44	54,0	46	5,5	54,14	1	0,43	6½ S	δ *Navis.*
	16	34,0	9	17	48,8	19	0,0	48,61	1	0,6	21 S	ζ *Hydræ.*
												κ *Hydræ.*
3	45	24,0	0	46	38,0	47	49,4					
	47	34,2	0	48	47,6	49	58,5	42,89	1	0,45		⊙ 1 L.
	20	36,4	7	22	3,0	23	26,4	3,03	1	0,67	19¼ N	⊙ 2 L.
	27	41,0	7	28	54,8	30	6,0	54,85	1	0,8	7½ S	*Castor.*
	31	52,4	7	33	16,0	34	36,0	15,89	1	0,77	15½ N	*Procyon.*
	3	54,7	8	5	13,0	6	28,8	16,15	..	...	8 N	*Pollux.*
	36	53,0	8	38	57,8	40	58,0	57,86	1	0,97	67 S	♀ *Centrum.* 7ʰ 19′ 47″,60 mean Time.
												δ *Navis.*

In the YEAR M.DCCCXIII.

DAY of the MONTH.	I. Wire. M	S	Meridian. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.		*Names or Characters* of the STARS and PLANETS.
April 3	43	41,0	8	44	54,7	46	5,8	54,76	1	+ 0,60	6½	S	ζ *Hydræ.*
	48	24,0	8	50	13,4	51	59,0	13,51	2	0,67	34½	N	κ *Ursæ Maj.*
	2	49,0	9	4	2,7	5	13,4	2,66	1	0,67	10½	S	ψ *Hydræ.*
	16	35,0	9	17	49,0	19	0,4	49,06	1	0,53	21	S	α *Hydræ.*
4	49	3,5	0	50	17,0	51	28,5	21,99	1	0,50	- - -		⊙ 1 L.
	51	12,5	0	52	26,8	53	38,0						⊙ 2 L.
	27	41,0	7	28	55,3	30	6,0	55,20	1	0,23	7½	S	*Procyon.*
	31	52,3	7	33	16,9	34	36,8	16,07	1	0,23	15½	N	*Pollux.*
	57	40,0	7	59	0,0	0	17,2	0,26	1	0,27	37	S	ρ *Navis.*
	36	58,0	8	38	58,2	40	58,8	58,26	1	0,50	67	S	δ *Navis.*
	43	41,2	8	44	55,5	46	5,7	55,44	1	0,3	6½	S	ζ *Hydræ.*
	48	24,3	8	50	13,6	51	59,0	13,68	1	0,17	34½	N	κ *Ursæ Maj.*

Emersion of Jupiter's *first* Satellite.
Time by Clock (S.) 1h 19′ 0″. Mean Time 12h 28′ 59″,82.
Planet apparently clear, but low, and tremulous at the time of the Eclipse: Observation otherwise good.

A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.

5	52	42,5	0	53	53,3	55	7,2	0,76	1	+ 0,07	- - -		⊙ 1 L.
	54	51,2	0	56	5,4	57	16,6						⊙ 2 L.
	31	53,2	7	33	16,8	34	37,0	16,74	1	0,63	15½	N	*Pollux.*
	57	40,3	7	59	0,5	0	18,0	0,63	1	0,5	37	S	ρ *Navis.*
	4	10,7	8	5	29,4	6	45,5	29,52	..	...	8	N	ψ *Centrum.* 7h 12′ 11′,39 mean Time.
	36	53,4	8	38	59,0	40	59,2	58,86	1	0,53	67	S	δ *Navis.*
	43	42,0	8	44	56,0	46	7,0	55,96	1	0,53	6½	S	ζ *Hydræ.*
	48	25,0	8	50	14,3	51	59,6	14,33	1	0,67	34½	N	κ *Ursæ Maj.*
	2	50,0	9	4	3,3	5	14,3	3,43	2	0,83	10½	S	θ *Hydræ.*
	16	36,0	9	17	50,0	19	1,3	50,04	2	0,97	21	S	α *Hydræ.*
6	56	21,5	0	57	35,6	58	46,5	40,29	1	0,63	- - -		⊙ 1 L.
	58	30,8	0	59	45,0	0	56,7						⊙ 2 L.
	27	42,0	7	28	56,3	30	8,0	56,35	2	0,67	7½	S	*Procyon.*
	31	54,3	7	33	17,3	34	37,5	17,32	1	0,7	15½	N	*Pollux.*
	4	19,8	8	5	38,5	6	54,5	38,60	..	...	8	N	ψ *Centrum.* 7h 8′ 23″,95 mean Time.
	43	42,5	8	44	56,4	46	7,4	56,26	1	0,43	6½	S	ζ *Hydræ.*
	48	26,0	8	58	15,0	52	0,5	15,20	1	0,87	34½	N	κ *Ursæ Maj.*
	2	50,8	9	4	4,0	5	15,0	4,16	1	0,73	10½	S	θ *Hydræ.*
	16	36,3	9	17	53,6	19	2,0	50,59	1	0,53	21	S	α *Hydræ.*
7	0	1,5	1	1	15,4	2	27,4	20,19	1	0,80	- - -		⊙ 1 L.
	2	10,3	1	3	25,0	4	36,0						⊙ 2 L.
	57	40,8	7	59	2,0	0	19,0	1,75	2	0,5	37	S	ρ *Navis.*
	4	30,6	8	5	49,4	7	5,0	49,37	..	...	8	N	ψ *Centrum.* 7h 4′ 37″,83 mean Time.
	36	55,0	8	39	0,0	41	0,3	0,03	2	0,62	67	S	δ *Navis.*
	43	42,7	8	44	57,0	46	8,0	56,89	1	0,47	6½	S	ζ *Hydræ.*
	48	26,7	8	50	15,5	52	1,0	15,73	1	0,57	34½	N	κ *Ursæ Maj.*
	2	51,3	9	4	5,0	5	15,3	4,86	1	0,6	10½	S	θ *Hydræ.*
	16	37,0	9	17	51,0	19	2,7	51,14	1	0,6	21	S	α *Hydræ.*
8	3	40,5	1	4	55,0	6	6,2	59,52	1	0,13	- - -		⊙ 1 L.
	5	50,0	1	7	4,3	8	15,4						⊙ 2 L.
	47	38,6	7	48	58,0	50	14,4	58,04	..	...	6½	N	☽ 1 L. 6h 43′ 53″,24 mean Time.
	57	41,4	7	59	2,0	0	19,4	1,90	1	0,33	37	S	ρ *Navis.*
	4	41,5	8	6	0,3	7	16,3	0,37	..	...	8	N	ψ *Centrum.* 7h 0′ 52″,77 mean Time.
	36	55,4	8	39	1,0	41	1,0	0,81	1	0,7	67	S	δ *Navis.*
	43	43,0	8	44	57,6	46	8,3	57,34	1	0,4	6½	S	ζ *Hydræ.*
	48	27,0	8	50	16,0	52	1,3	16,15	1	0,37	34½	N	κ *Ursæ Maj.*
	2	52,0	9	4	5,3	5	16,0	5,36	1	0,57	10½	S	θ *Hydræ.*
9	7	20,4	1	8	35,0	9	46,3	39,65	1	0,63	- - -		⊙ 1 L.
	9	30,0	1	10	44,0	11	56,3						⊙ 2 L.
	4	53,0	8	6	11,5	7	27,0	11,52	..	...	8	N	ψ *Centrum.* 6h 57′ 7″,29 mean Time.

In the YEAR M.DCCCXIII.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.		Names or Characters of the STARS AND PLANETS.
										+			
APRIL 9	36	56,0	8	39	1,6	41	1,8	1,46	1	0,67	67	S	δ *Navis.*
	44	37,0	8	45	55,3	47	10,0	55,18	..	. . .	4½	N	☽ 1 L. 7h 36′ 44″,43 mean Time.
	2	52,3	9	4	5,4	5	16,5	5,61	1	0,3	10½	S	β *Hydræ.*
	16	38,0	9	17	52,0	19	3,3	52,04	2	0,43	21	S	α *Hydræ.*
10	11	1,0	1	12	14,5	13	26,3	19,42	1	0,07	-	- -	☉ 1 L.
	13	9,5	1	14	24,0	15	35,5						☉ 2 L.
	57	43,0	7	59	3,0	0	20,0	3,05	1	0,67	37	S	ρ *Navis.*
	5	5,4	8	6	24,4	7	39,5	24,20	..	. . .	8	N	ψ *Centrum.* 6h 53′ 23″,98 mean Time.
	36	56,3	8	39	2,0	41	1,9	2,06	1	0,27	67	S	δ *Navis.*
	43	44,5	8	44	58,7	46	10,0	58,69	2	0,72	6½	S	ζ *Hydræ.*
	48	28,0	8	50	17,0	52	2,0	17,06	1	0,27	34½	N	ϰ *Urs. Maj.*
	2	53,0	9	4	6,0	5	17,6	6,21	1	0,6	10½	S	β *Hydræ.*
	16	38,4	9	17	52,6	19	4,0	52,61	1	0,57	21	S	α *Hydræ.*
	38	46,4	9	40	4,0	41	18,4	3,97	..	. . .	1½	N	☽ 1 L. 8h 26′ 48″,39 mean Time.
11	14	41,0	1	15	55,5	17	7,4				-	- -	☉ 1 L.
	16	50,0	1	18	4,6	19	16,3	0,09	1	0,67			☉ 2 L.
	57	43,7	7	59	4,0	0	20,7	3,90	1	0,8	37	S	ρ *Navis.*
	36	56,3	8	39	2,0	41	2,3	1.86	1	0,13	67	S	δ *Navis.*
	43	45,0	8	44	59,0	46	10,4	59,06	1	0,4	6½	S	ζ *Hydræ.*
	48	28,3	8	50	17,4	52	2,6	17,48	1	0,43	34½	N	ϰ *Urs. Maj.*
	2	53,3	9	4	6,4	5	17,4	6,58	1	0,37	10½	S	β *Hydræ.*
	16	39,3	9	17	53,4	19	4,6	53,39	1	0,77	21	S	α *Hydræ.*
	30	17,4	10	31	33,6	32	46,4	33,51	..	. . .	2½	S	☽ 1 L. 9h 14′ 12″,76 mean Time.
	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.												
12	18	21,5	1	19	36,3	20	47,0			+	-	- -	☉ 1 L.
	20	31,4	1	21	45,0	22	57,0	40,66	1	0,37			☉ 2 L.
	57	44,3	7	59	4,2	0	21,5	4,35	1	0,53	37	S	ρ *Navis.*
	36	57,0	8	39	2,4	41	3,0	2,41	1	0,6	67	S	δ *Navis.*
	43	46,0	8	45	0,0	46	11,0	59,96	1	0,87	6½	S	ζ *Hydræ.*
	48	29,0	8	50	18,4	52	3,3	18,33	1	0,8	34½	N	ϰ *Urs. Maj.*
	2	54,0	9	4	7,0	5	18,0	7,21	1	0,63	10½	S	β *Hydræ.*
	16	40,0	9	17	54,2	19	5,0	54,06	1	0,63	21	S	α *Hydræ.*
	EMERSION *of* JUPITER's *third* Satellite. Time by Clock (S.) 10h 48′ 42″. Mean Time 9h 27′ 43″,96. Planet high and clear: Moonlight: Observation good.												
13	22	2,5	1	23	17,5	24	29,6			+	-	- -	☉ 1 L.
	24	12,5	1	25	27,4	26	39,4	22,44	1	1,28			☉ 2 L.
	57	45,0	7	59	5,0	0	21,8	5,00	1	0,6	37	S	ρ *Navis.*
	36	58,0	8	35	3,0	41	4,0	3,21	1	0,87	67	S	δ *Navis.*
	48	29,8	8	50	19,5	52	4,0	19,26	1	0,87	34½	N	ϰ *Urs. Maj.*
	2	54,5	9	4	8,0	5	18,5	7,71	1	0,67	10½	S	β *Hydræ.*
	16	40,6	9	17	55,0	19	6,0	54,86	1	0,8	21	S	α *Hydræ.*
	EMERSION of JUPITER's *first* Satellite. Time by Clock (S.) 10h 17′ 39″. Mean Time 8h 52′ 27″,40. Planet high and clear; but strong Moonlight—Observation otherwise satisfactory.												
14	25	45,0	1	26	59,0	28	11,3			+	-	- -	☉ 1 L.
	27	54,5	1	29	9,5	30	21,0	4,34	1	1,00			☉ 2 L.
	36	39,5	8	39	4,5	41	5,0	4,58	1	1,33	67	S	δ *Navis.*
	43	48,4	8	45	2,0	46	13,0	2,06	1	1,3	6½	S	ζ *Hydræ.*
	48	30,5	8	50	20,4	52	5,3	20,21	1	0,97	34½	N	ϰ *Urs. Maj.*
	2	56,0	9	4	9,5	5	20,0	9,46	1	1,5	10½	S	β *Hydræ.*
	16	42,0	9	17	56,0	19	7,2	56,01	1	1,2	21	S	α *Hydræ.*

In the YEAR M.DCCCXIII.

DAY OF THE MONTH.	I. Wire.	MERIDIAN.	III. Wire.	Reduction of Wires.	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
	M S	H M S	M S	S				
APRIL 14	56 41,0	9 57 56,7	59 9,0	56,58	..	+ . . .	½ S	*Regulus.*
	4 28,0	10 5 48,5	7 6,0	48,50	..	. . .	11½ N	*ζ Leonis.*
15	29 27,0	1 30 42,0	31 54,5	45,67	1	1,23	. . .	⊙ 1 L.
	31 36,5	1 32 51,5	34 3,0					⊙ 2 L.
	37 0,5	8 39 5,4	41 6,0	5,34	1	0,97	67 S	*δ Navis.*
	43 49,3	8 45 3,0	46 14,0	3,01	1	0,97	6½ S	*ζ Hydræ.*
	48 32,0	8 50 21,0	52 6,5	21,18	1	1,1	34½ N	*κ Urs. Maj.*
	2 57,0	9 4 10,4	5 21,5	10,48	1	1,07	10½ S	*θ Hydræ.*
	16 43,0	9 17 57,0	19 8,5	57,09	1	1,1	21 S	*α Hydræ.*
	56 42,0	9 57 58,0	59 10,0	57,73	1	1,1	½ S	*Regulus.*
	4 29,5	10 5 49,3	7 7,0	49,50	1	1,03	11½ N	*ζ Leonis.*
16	33 9,5	1 34 24,0	35 56,0	28,80	1	0,71	. . .	⊙ 1 L.
	35 19,0	1 36 33,6	37 45,4					⊙ 2 L.
	37 1,6	8 39 6,0	41 7,0	. .	1	0,9	67 S	*δ Navis.*
	43 50,0	8 45 4,0	46 15,0	3,96	1	0,9	6½ S	*ζ Hydræ.*
	48 32,8	8 50 22,0	52 7,5	22,08	1	0,87	34½ N	*κ Urs. Maj.*
	2 58,0	9 4 11,5	5 22,5	11,58	1	1,1	10½ S	*θ Hydræ.*
	16 44,0	9 17 58,0	19 9,0	57,96	1	0,83	21 S	*α Hydræ.*
	56 42,8	9 57 58,7	59 11,0	58,53	1	0,83	½ S	*Regulus.*
	4 30,0	10 5 50,0	7 8,0	50,27	1	0,8	11½ N	*ζ Leonis.*
17	36 51,5	1 38 5,8	39 18,4	11,13	1	0,35	. . .	⊙ 1 L.
	39 0,5	1 40 16,3	41 28,5					⊙ 2 L.
	37 2,0	8 39 7,0	41 7,7	7,13	1	0.7	67 S	*δ Navis.*
	43 50,5	8 45 4,6	46 15,5	4,51	1	0,53	6½ S	*ζ Hydræ.*
	48 33,4	8 50 22,4	52 8,0	22.60	1	0,57	34½ N	*κ Urs. Maj.*
	2 58,7	9 4 12,0	5 23,0	12,27	1	0.57	10½ S	*θ Hydræ.*
	16 44,4	9 17 58,3	19 10,0	58,46	1	0,57	21 S	*α Hydræ.*
	56 43,4	9 57 59,0	59 11,0	58.82	1	0,3	½ S	*Regulus.*
	4 30,0	10 5 50,8	7 8,3	50.75	1	0.37	11½ N	*ζ Leonis.*
	7 55,0	10 9 13,0	10 29,0	13,50	1	0.8	7½ N	*γ Leonis.*
18	40 33,0	1 41 48,8	43 1,5	54,08	1	0,55	. . .	⊙ 1 L.
	42 44,0	1 43 59,5	45 11.8					⊙ 2 L.
	37 2,0	8 39 7,4	41 8,0	7,41	1	0,28	67 S	*δ Navis.*
	43 51,0	8 45 5,0	46 15,8	5,16	1	0,4	6½ S	*ζ Hydræ.*
	48 33,8	8 50 23.0	52 9.0	23,26	1	0.67	34½ N	*κ Urs. Maj.*
	2 59,0	9 4 12,8	5 23,0	12,61	1	0,37	10½ S	*θ Hydræ.*
	56 44,0	9 57 59,5	59 12,0	59,48	1	0,7	½ S	*Regulus.*
	7 55,0	10 9 14,0	10 29,0	13,76	1	0,33	7½ N	*γ Leonis.*
	P. M. Examined the Line of Collimation and Meridian adjustment,—found both right.							
19	44 16,0	1 45 31,3	46 44,4	36,72	1	+ 0,05	. . .	⊙ 1 L.
	46 26,5	1 47 42,0	48 54,4					⊙ 2 L.
	43 51,0	8 45 5.3	46 16,0	5,11	1	0,17	6½ S	*ζ Hydræ.*
	48 34,0	8 50 23,6	52 9,0	23,61	1	0,27	34½ N	*κ Urs. Maj.*
	2 59,3	9 4 13,0	5 23,6	12,99	1	0,37	10½ S	*θ Hydræ.*
	16 45,0	9 17 59,0	19 10,6	59,11	1	0.20	21 S	*α Hydræ.*
	56 44,5	9 58 0.0	59 12,5	59,98	1	0.5	½ S	*Regulus.*
	4 31,0	10 5 52,0	7 9,4	51,87	1	0.47	11½ N	*ζ Leonis.*
	7 56,0	10 9 14,4	10 30,0	14,46	1	0,8	7½ N	*γ Leonis.*
	IMMERSION of JUPITER's *third* Satellite. Time by Clock (S.) 11h 43′ 10″. Mean Time 9h 54′ 9″,08. Planet high and clear: Observation good: Moonlight.							
20	48 0,0	1 49 16,0	50 27.5	20,53	1	+ 0,70	. . .	⊙ 1 L.
	50 10,4	1 51 25,4	52 38,0					⊙ 2 L.
	7 50,4	8 9 9,3	10 25,0	9,27	..	. . .	8 N	*ϰ Centaur.* 6h 16′ 38″,59 mean Time.
	43 51,6	8 45 5,5	46 16,4	5,46	. .	. . .	6½ S	*ζ Hydræ.*

In the YEAR M.DCCCXIII.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
APRIL 20	48	34,0	8	50	24,0	52	9,0	23,81	..	...	34½ N	*κ Urs. Maj.*
	3	0,0	9	4	13,3	5	24,0	13,36	..	...	10¼ S	*δ Hydræ.*
	16	45,5	9	17	59,4	19	11,0	59,54	..	...	21 S	*α Hydræ.*
	4	31,5	10	5	59,0	6	9,8	59,10	..	...	11¾ N	*ζ Leonis.*
	7	56,8	10	9	15,0	10	30,5	14,96	..	...	7¼ N	*γ Leonis.*

EMERSION of JUPITER'S *first* Satellite.
Time by Clock (S.) 12h 40′ 40″. Mean Time 10h 47′ 29″,91.
Planet high and clear: Observation good: Moonlight.

21	51	43,4	1	52	59,3	54	11,0	4,08	1	0,05	. . .	☉ 1 L.
	53	54,0	1	55	9,0	56	22,0					☉ 2 L.
	8	10,6	8	9	29,0	10	45,0	29,17	..	...	8 N	*ϒ Centrum.* 6h 19′ 5″,47 mean Time.
	43	52,0	8	45	6,0	46	17,3	6,04	1	+0,6	6¼ S	*ζ Hydræ.*
	48	35,0	8	50	24,0	52	9,5	24,18	1	0,5	34½ N	*κ Urs. Maj.*
	3	0,0	9	4	13,4	5	24,4	13,51	1	0,15	10¼ S	*δ Hydræ.*
	16	46,0	9	18	0,0	19	10,5	0,20	1	0,53	21 S	*α Hydræ.*
	56	45,5	9	58	0,6	59	13,0	0,55	1	0,37	¼ S	*Regulus.*
	4	32,0	10	5	53,0	.	.	. .	1	0,75	11¾ N	*ζ Leonis.*
	7	57,0	10	9	15,0	.	.	15,63	1	0,35	7¼ N	*γ Leonis.*
22	55	28,0	1	56	43,5	57	55,0	48,57	1	0,49	. . .	☉ 1 L.
	57	38,0	1	58	53,6	0	6,3					☉ 2 L.
	8	31,4	8	9	49,6	11	5,0	49,68	..	...	8 N	*ϒ Centrum.* 6h 9′ 29″,55 mean Time.
	43	52,3	8	45	6,0	46	17,4	6,28	1	0,13	6¼ S	*ζ Hydræ.*
	16	46,3	9	18	0,3	19	11,0	0,40	1	0,37	21 S	*α Hydræ.*
	56	45,3	9	58	1,0	59	13,0	0,80	1	0,07	¼ S	*Regulus.*
	4	32,0	10	5	53,0	7	10,0	52,77	1	0,0	11¾ N	*ζ Leonis.*
	7	57,0	10	9	15,0	10	31,0	15,26	1	0,0	7¼ N	*γ Leonis.*

IMMERSION of JUPITER'S *fourth* Satellite.
Time by Clock (S.) 11h 36′ 46″. Mean Time 9h 35′ 51″,86.
Planet sufficiently high and clear: Observation good.

23	59	11,5	2	0	27,0	1	40,4	32,61	1	0,36	. . .	☉ 1 L.
	1	22,0	2	2	38,0	3	51,0					☉ 2 L.
	8	52,4	8	10	11,0	11	26,5	10,99	..	...	8 N	*ϒ Centrum.* 6h 5′ 55″,36 mean Time.
	43	52,5	8	45	6,0	46	17,3	6,16	1	+0,03	6¼ S	*ξ Hydræ.*
	48	35,0	8	50	25,0	52	10,0	24,81	1	0,15	34½ N	*κ Urs. Maj.*
	3	0,5	9	4	14,3	5	25,0	14,23	1	0,2	10¼ S	*δ Hydræ.*
	16	46,0	9	18	0,3	19	12,0	0,36	1	0,23	21 S	*α Hydræ.*
	56	45,3	9	58	1,0	59	13,2	0,85	1	0,07	¼ S	*Regulus.*
	4	32,0	10	5	53,0	7	10,0	52,77	1	0,0	11¾ N	*ζ Leonis.*
	7	57,0	10	9	15,0	10	31,0	15,26	1	0,0	7¼ N	*γ Leonis.*
24	2	57,0	2	4	12,4	5	25,0	17,86	..	...	. . .	☉ 1 L.
	5	8,0	2	6	23,0	7	36,0					☉ 2 L.
	43	52,5	8	45	6,5	46	18,0	6,59	1	0,4	6¼ S	*ξ Hydræ.*
	48	35,0	8	50	25,0	52	10,3	24,88	1	0,1	34½ N	*κ Urs. Maj.*
	3	1,0	9	4	14,0	5	25,0	14,42	1	0,07	10¼ S	*δ Hydræ.*
	16	46,0	9	18	1,0	19	12,0	0,86	1	0,23	21 S	*α Hydræ.*

EMERSION of JUPITER'S *second* Satellite.
Time by Clock (S.) 9h 44′ 0″. Mean Time 7h 35′ 41″,48.
Planet near the Meridian: Clear: Observation good.

	56	45,5	9	58	1,0	59	13,0	0,85	1	0,0	¼ S	*Regulus.*
	4	33,0	10	5	53,0	7	10,5	53,30	1	0,5	11¼ N	*ζ Leonis.*
	7	57,4	10	9	15,5	10	31,5	15,68	1	0,4	7¼ N	*γ Leonis.*

In the YEAR M.DCCCXIII.

DAY OF THE MONTH.	I. Wire.	MERIDIAN.	II. Wire.	Reduction of Wires.	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
	M S	H M S	M S	S		+		
APRIL 25	6 42,5	2 7 58,0	9 11,4					☉ 1 L.
	8 53,0	2 10 9,0	11 21,0	3,45	1	0,09	. . .	☉ 2 L.
	3 1,0	9 4 14,6	5 25,0	14,53	1	0,2	10½ S	θ *Hydræ.*
	16 46,4	9 18 1,0	19 12,0	0,81	1	0,13	21 S	α *Hydræ.*
	29 32,0	9 30 46,4	31 58,0	46,43	. .	. . .	2½ S	o *Leonis.*
	56 46,0	9 58 1,0	59 13,4	1,08	1	0,3	¾ S	*Regulus.*
	" "	10 1 6,0	2 18,3	" "	. .	. . .	24½ S	λ *Hydræ.*
	4 33,3	10 5 53,0	7 11,0	53,35	1	0,27	11½ N	ζ *Leonis.*
	7 58,0	10 9 16,0	10 31,4	16,11	1	0,4	7¼ N	γ *Leonis.*
	At 6h A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.							
26	10 29,0	2 11 44,4	12 57,4			+		☉ 1 L.
	12 39,3	2 13 55,0	15 8,0	49,81	1	0,36	. . .	☉ 2 L.
	3 1,0	9 4 15,0	5 25,5	14,83	1	0,3	10½ S	θ *Hydræ.*
	16 47,0	9 18 1,0	19 12,3	1,04	1	0,3	21 S	α *Hydræ.*
	29 32,0	9 30 47,0	31 59,0	46,98	1	0,53	2½ S	o *Leonis.*
	59 51,0	10 1 6,3	2 18,0	6,17	1	0,3	24½ S	λ *Hydræ.*
	4 33,4	10 5 54,0	7 11,3	53,95	1	0,47	11½ N	ζ *Leonis.*
	7 57,0	10 9 16,0	10 31,8	15,96	1	0,47	7¼ N	γ *Leonis.*
27	14 14,3	2 15 30,5	16 43,3					☉ 1 L.
	16 25,0	2 17 41,0	18 55,0	35,81	1	—0,4	. . .	☉ 2 L.
	3 1,0	9 4 15,0	5 25,5	14,81	1	+ 0,0	10½ S	θ *Hydræ.*
	16 47,0	9 18 1,0	19 13,0	1,10	1	0,23	21 S	α *Hydræ.*
	" "	9 30 47,0	31 59,0	47,0	1	0,0	2½ S	o *Leonis.*
	56 46,4	9 58 2,0	59 14,3	1,90	1	0,57	¾ S	*Regulus.*
	59 52,0	10 1 6,0	2 18,0	6,02	1	0,23	24½ S	λ *Hydræ.*
	4 33,0	10 5 54,2	7 11,0	53,87	1	—0,07	11½ N	ζ *Leonis.*
	7 54,0	10 9 16,5	10 32,0	16,51	1	0,57	7¼ N	γ *Leonis.*
28	18 1,5	2 19 18,0	20 29,3					☉ 1 L.
	20 12,4	2 21 28,0	22 40,5	22,37	1	1,34	. . .	☉ 2 L.
	3 1,3	9 4 15,0	5 26,0	15,03	1	+0,27	10½ S	θ *Hydræ.*
	29 32,5	9 30 47,3	31 59,0	47,26	1	0,1	2½ S	o *Leonis.*
	4 33,3	10 5 54,0	7 11,7	54,02	1	0,27	11½ N	ζ *Leonis.*
	7 58,0	10 9 16,6	10 32,3	16,63	1	0,13	7¼ N	γ *Leonis.*
	" "	10 22 34,4	23 46,5	" "	. .	. . .	3 S	p *Leonis.*

This Evening observed a luminous appearance in the Constellation of the *Wolf*, which when seen through the Telescope, was found to have a *Nucleus* rather bright, but indistinctly defined, and surrounded by a considerable *Coma*.

The following Distances of it from *Antares* and *Spicæ* were observed.

Time by Clock. *(Haswell.)*	Clock fast for mean Time.	Mean Time.	Distance from *Antares.*	Distance from *Spicæ.*
11h 8′ 40″	1′ 2″	11h 7′ 38″	14° 15′ 40″	38° 57′ 40″

No Error of the Sextant.

29	21 49,0	2 23 4,4	24 18,0			+		☉ 1 L.
	23 59,8	2 25 16,0	26 29,5	10,42	1	0,55	. . .	☉ 2 L.
	16 47,0	9 18 1,3	19 13,0	1,36	1	—0,03	21 8	α *Hydræ.*
	EMERSION of JUPITER'S *first* Satellite. Time by Clock (S.) 9h 39′ 4″. Mean Time 7h 11′ 1″,16. Planet near the Zenith, and clear: Observation good.							
	56 46,4	9 58 2,0	59 14,0	1,83	1	—0,05	¾ S	*Regulus.*
	59 52,5	10 1 6,0	2 18,0	6,80	1	+0,33	24½ S	λ *Hydræ.*
	21 20,3	10 22 35,0	23 47,0	35,03	1	0,55	3 S	p *Leonis.*
	48 3,0	13 50 25,4	52 44,0	25,37	. .	. . .	72½ S	β *Centauri.*
	24 12,6	14 26 40,3	29 1,5	40,10	. .	. . .	73½ S	α *Centauri.*

In the YEAR M.DCCCXIII.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	Names or Characters of the STARS AND PLANETS.
APRIL 29	38	55,0	14	40	12,4	41	25,0	11,47	..	. . .	28¾ S	α *Libræ.* [Mean Time 12h 29′ 59″,6.
	"	"	14	59	3,5	0	30,5	" "	..	. . .	52¼ S	*Comet.* A R. 14h 59′ 26″,3. Dec. 39′ 4″ 52″ S.
	Time by Clock. (*Haswell.*) 9h 45′ 20″					Clock fast for mean Time. 1′ 3″				Mean Time. 9h 44′ 17″		Distance from *Antares.* *Spicæ.* 27° 12′ 37″ 37° 13′ 37″
30	25	56,0	2	26	52,4	28	6,0					⊙ 1 L.
	27	48,4	2	29	4,0	30	17,0	58,25	1	−0,27	. . .	⊙ 2 L.
	29	32,3	9	30	47,0	31	59,0	47,05	2	0,17	2¾ S	ο *Leonis.*
	56	46,0	9	58	2,0	59	13,8	1,38	1	0,20	¼ S	*Regulus.*
	59	52,0	10	1	6,5	2	18,0	6,52	1	0,0	24½ S	λ *Hydræ.*
	4	34,0	10	5	54,5	7	11,8	54,47	2	+0,17	11¼ N	ζ *Leonis.*
	7	58,0	10	9	16,4	10	32,0	16,46	2	0,17	7¼ N	γ *Leonis.*
MAY 1	29	25,0	2	30	44,5	31	54,5	46,83	1	0,08	. . .	⊙ 1 L.
	31	36,5	2	32	52,0	34	6,0					⊙ 2 L.
	Wound up the Clock: Arc of Vibration 1°: 39′.											
	16	47,8	9	18	1,4	19	13,0	1,61	1	+ 0,07	21 S	α *Hydræ.*
	"	"	9	30	47,0	31	59,0	" "	1	0,0	2¾ S	ο *Leonis.*
	56	46,6	9	58	2,9	59	14,0	1,88	1	0,27	¼ S	*Regulus.*
	These two last Evenings Cloudy to the Southward, and the COMET not visible in consequence.											
2	7	58,0	10	9	16.4	10	32,5	16,58	2	+ 0,17	7¼ N	γ *Leonis.*
	15	24,4	10	16	40,5	17	54,0	40,56	..	. . .	29½ S	μ *Hydræ.*
	21	20,0	10	22	35,4	23	47,9	35,22	4	0,22	3 S	β *Leonis.*
	Saw the COMET at 7 o'clock considerably advanced to the westward, the *Nucleus* at times appeared bright to the eye unassisted by a Telescope, but with the Telescope it was indistinct—Cloudy at the time of its passing the Meridian—half an hour before, it was clear. The following distances were taken from α *Hydræ* and *Spicæ.*											
	Time by Clock. (*Haswell.*) 7h 26′ 56″					Fast. 1′ 2″				Mean Time. 7h 25′ 54″		Distance from α *Hydræ.* *Spicæ.* 37° 7′ 10″ 66° 27′ 25″
												Error of Sextant 3 44
	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.											
3	37	2,5	2	38	20,0	39	32,4	25,99	2	+ 0,57	. . .	⊙ 1 L.
	39	15,0	2	40	39,0	41	45,0					⊙ 2 L.
	29	33,0	9	30	47,3	31	59,5	47,55	2	0,2	2¾ S	ο *Leonis.*
	56	47,0	9	58	2,0	59	14,5	2,16	2	0,15	¼ S	*Regulus.*
	4	34,0	10	5	54,5	7	12,0	54,5	1	0,23	11½ N	ζ *Leonis.*
	7	58,4	10	9	17,0	10	32,2	16,91	1	0,23	7¼ N	γ *Leonis.* [Mean Time 10h 10′ 43″,3.
	53	26,0	12	55	8,5	57	0,0	" "	..	. . .	61¼ S	*Comet.* A R. 12h 55′ 30″,7. Dec. 45° 23′ 26″ S.
	18	46,9	13	15	1,0	16	12,4	1,05	1	0,33	23¾ S	*Spicæ Virg.*
4	40	53,5	2	42	9,0	43	23,5	15,68	1	0,39	. . .	⊙ 1 L.
	43	5,0	2	44	21,4	45	35,4					⊙ 2 L.
	56	47,4	9	58	2,3	"	"	2,48	1	0,35	¼ S	*Regulus.*
	29	7,0	12	30	56,0	32	40,5	56,01	1	0,5	61½ S	μ *Centauri.*
	COMET Cloudy this Evening.											
5	"	"	2	46	0,0	47	14,0	6,71	1	+ 0,33	. . .	⊙ 1 L.
	46	56,5	2	48	13,5	49	27,7					⊙ 2 L.
	56	47,0	9	58	2,4	59	14,5	2,33	1	0,25	¼ S	*Regulus.*
	59	51,4	10	1	6,0	2	18,4	6,21	2	−0,08	2½ S	λ *Hydræ.*

In the YEAR M.DCCCXIII.

DAY OF THE MONTH.		I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock,	Zenith Distance.	*Names or Characters of the* STARS AND PLANETS.
MAY	5	4	34,0	10	5	54,0	7	11,7	54,18	2	0,14	11¼ N	ζ *Leonis.*
		7	58,0	10	9	17,2	10	32,3	16,93	2	0,02	7¼ N	γ *Leonis.*
		15	25,0	10	16	41,3	17	54,6	41,26	2	0.01	20¾ S	μ *Hydræ.*
		21	20,5	10	22	35,0	23	47,3	55,15	3	0,01	3 S	ρ *Leonis.* [Mean Time 9h 8′ 14″,8.
				11	53	11,0				62¼ S			*Comet.* A.R.11h 53′ 33″,1. Dec. 49° 43′ 49″ S.

Saw the COMET very clear, but in appearance much diminished in size, owing chiefly to the Moonlight—it was very near β *Centauri.*

	6	48	34,4	2	49	51,0	51	5,0	57,29	1	0,62		☉ 1 L.
		50	46,6	2	52	3,0	53	18,0					☉ 2 L.
		59	51,4	10	1	6,6	2	18,4	6,51	1	0,2	24¼ S	λ *Hydræ.*
		4	33,5	10	5	54,4	7	11,4	54,18	1	0,2	11¼ N	ζ *Leonis.*
		7	58,6	10	9	17,0	10	32,0	16,91	1	+0,03	7¼ N	γ *Leonis.*
		15	25,5	10	16	41,0	17	54,3	41,11	1	−0,10	20¾ S	μ *Hydræ.*
		21	20,6	10	22	35,5	23	47,0	35,35	1	0,1	3 S	ρ *Leonis.* [Mean Time 8h 50′ 17″,15.
		24	50,0	11	26	15,0	27	55,0		62¼ S			*Comet.* A.R.11h 26′ 37″. Dec. 49° 37′ 26″ S.

COMET more faint, owing partly to the increase of the Moonlight.

EMERSION of JUPITER's *first* Satellite.
Time by Clock (S.) 12h 2′ 16″. Mean Time 9h 6′ 18″,45.
Planet high, but near the ☽: somewhat hazy: Observation otherwise good.

	7	52	26,0	2	53	42,5	54	56,6	48,96	1	+ 0,11		☉ 1 L.
		54	38,4	2	55	55,0	57	9,5					☉ 2 L.
				9			21	30,5	14,54			2¼ N	☽ 1 L. 6h 23′ 42″,71 mean Time.
		59	51,4	10	1	6,4	2	18,5	6,43	1	−0,03	24¼ S	λ *Hydræ.*
		4	33,5	10	5	54,4	7	11,5	54,20	1	0,0	11¼ N	ζ *Leonis.*
		7	58,0	10	9	16,8	10	31,8	16,71	1	0,3	7¼ N	γ *Leonis.*
				10	16	41,0	17	54,4	40,86	1	+0,03	20¾ S	μ *Hydræ.*
		21	20,0	10	22	35,0	23	47,4	35,06	1	−0,5	3 S	ρ *Leonis.*
		38	47,4	10	40	2,5			2,87			29¼ S	ν *Hydræ.* [Mean Time 8h 2′ 1″,6
		0	30,0	11	1	50,0	3	14,0				62 S	*Comet.* A.R.11h 2′ 12″,1. Dec. 45° 53′ 1″ S.

COMET indistinct.

	8	56	17,4	2	57	34,5	58	49,3	41,16	1	−0,20		☉ 1 L.
		58	30,6	2	59	47,4	1	1,0					☉ 2 L.
		59	51,4	10	1	6,4	2	19.0	6,51	1	+0,17	24¼ S	λ *Hydræ.*
		4	34,0	10	5	54,0	7	11,0	54,0	1	−0,13	11¼ N	ζ *Leonis.*
		7	58,5	10	9	16,4	10	32,0	16,55	1	+0,37	7¼ N	γ *Leonis.*
		14	52,4	10	16	8,5	17	22,4	8,64			1 S	☽ 1 L. 7h 12′ 32″,34 m. t. ƒm. t. 7h 37′ 7″,5
		39	20,0	10	40	50,0	12	25,0				61 S	*Comet.* A.R. 10h 41′ 12″. Dec. 48° 0′ 59″ S.

	9	0	10,4	3	1	27,5	2	42,5	34,09	1	0,03		☉ 1 L.
		2	23,4	3	3	40,0	4	55,0					☉ 2 L.
		59	51,0	10	1	6,5	2	18,5	6,38	1	−0,27	24¼ S	λ *Hydræ.*
		4	34,4	10	5	54,5	7	11.2	54.40	1	+0,37	11¼ N	ζ *Leonis.*
		7	58,4	10	9	16,5	10	32,0	16,58	1	0,0	7¼ N	γ *Leonis.* [11′ 37″,4.
				10	19	10,0	20	30,0				59 S	*Comet.* A.R. 10h 19′ 32″. Mean Time 7h
		4	58,5	11	6	13,5	7	27,0	13,80			5 S	☽ 1 L. 7h 58′ 33″,18 mean Time.

EMERSION of JUPITER's *fourth* Satellite.
Time by Clock (S.) 11h 26′ 48″. Mean Time 8h 19′ 20″,27.
Planet high and hazy: Moonlight: Observation otherwise good.

At 7 A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.

In the YEAR M.DCCCXIII.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	Names or Characters of the STARS AND PLANETS.
MAY 10	4	3,5	3	5	21,0	6	35,3					
	6	17,0	3	7	34,0	8	48,0	29,42	1	0,07	- - -	☉ 1 L.
	-	-	9	58	2,4	59	14,5	2,21	2	+0,15	¼ S	☉ 2 L.
	-	-	10	1	6,4	2	18,6	- -	1	0,0	24½ S	*Regulus.*
	4	34,0	10	5	54,3	7	12,0	54,40	1	0,07	11½ N	λ *Hydræ.*
	7	58,0	10	9	16,4	10	32,3	16,53	1	0,07	7½ N	ζ *Leonis.*
	15	26,0	10	16	41,5	17	54,5	41,59	3	0,1	29½ S	γ *Leonis.*
	20	20,0	10	22	35,4	23	47,0	35,11	3	0,0	3 S	μ *Hydræ.*
	38	47,0	10	40	2,3	-	-	2,57	3	−0,1	28½ S	ρ *Leonis.*
	53	1,4	11	54	15,5	55	27,0	15,53	..	. . .	9 S	ν *Hydræ.*
												☽ 1 L. 8ʰ 42′ 29″,15 mean Time.
11	Hazy at		Noon.							+		
	7	58,3	10	9	17,0	10	32,0	16,83	1	0,03	7½ N	γ *Leonis.*
12	11	52,0	3	13	9,4	14	24,4					☉ 1 L.
	14	5,0	3	15	22,5	16	37,0	16,01	1	−0,01	- - -	☉ 2 L.
	-	-	10	1	6,0	2	18,6	5,78	1	0,3	24½ S	λ *Hydræ.*
	7	58,0	10	9	17,0	9	32,0	16,76	1	0,1	7½ N	γ *Leonis.*
13	15	47,4	3	17	5,0	18	19,7					☉ 1 L.
	18	0,3	3	19	18,0	20	32,0	11,35	1	+0,15	- - -	☉ 2 L.
	-	-	10	1	6,5	2	18,5	- -	1	0,13	24½ S	λ *Hydræ.*
	4	34,4	10	5	54,0	7	12,0	54,36	2	0,07	11½ N	ζ *Leonis.*
	15	26,4	10	16	42,0	17	54,5	41,94	3	0,15	29½ S	μ *Hydræ.*
	21	20,5	10	22	35,4	23	47,0	35,27	3	0,08	3 S	ρ *Leonis.*
	47	51,5	10	50	7,0	52	18,5	7,27	..	. . .	44½ N	β *Urs. Maj.*
	2	28,3	11	3	47,0	5	3,4	47,16	..	. . .	8½ N	ξ *Leonis.*
	41	23,0	11	43	35,0	45	38,0	35,19	..	. . .	41½ N	γ *Urs. Maj.*
	4	34,6	12	5	51,5	7	5,0	51,36	..	. . .	29½ S	γ *Corvi.*
14	19	42,8	3	21	1,0	22	15,4					☉ 1 L.
	21	56,3	3	23	14,0	24	29,0	7,38	1	0,32	- - -	☉ 2 L.
	15	26,0	10	16	42,3	17	55,5	42,24	1	0,3	29½ S	μ *Hydræ.*
	21	20,4	10	22	35,6	23	47,5	35,47	1	0,2	3 S	ρ *Leonis.*
	47	51,0	10	50	7,6	52	19,0	7,57	1	0,2	44½ N	β *Urs. Maj.*
	2	29,0	11	3	48,0	5	4,0	48,01	1	0,77	8½ N	ξ *Leonis.*
	37	54,0	11	39	9,8	40	23,3	9,93	..	. . .	2½ N	β *Leonis.*
	41	28,4	11	43	35,5	45	38,0	35,54	1	0,3	41½ N	γ *Urs. Maj.*
	58	52,0	12	0	12,0	1	27,0	11,96	..	. . .	34½ S	ε *Corvi.*
	4	35,0	12	5	52,0	7	5,8	51,96	1	0,57	29½ S	γ *Corvi.*
15	23	39,0	3	24	57,5	26	12,4					☉ 1 L.
	25	54,0	3	27	11,0	28	26,3	4,41	1	0,73	- - -	☉ 2 L.
	21	20,4	10	22	36,0	23	48,6	35,58	1	0,8	3 S	ρ *Leonis.*
	47	52,0	10	50	8,0	52	19,5	8,15	1	0,63	44½ N	β *Urs. Maj.*
	2	30,0	11	3	49,0	5	4,5	48,86	1	0,83	8½ N	ξ *Leonis.*
	37	55,0	11	39	10,4	40	24,0	10,66	1	0,77	2½ N	β *Leonis.*
	41	29,0	11	43	36,4	45	39,6	36,39	1	0,83	41 N	γ *Urs. Maj.*
	58	53,0	12	0	12,8	1	28,6	12,14	1	0,77	34½ S	ε *Corvi.*
	4	36,0	12	5	52,4	7	6,0	52,41	1	0,53	29½ S	γ *Corvi.*
16	27	37,0	3	28	54,5	30	9,8					☉ 1 L.
	29	51,0	3	31	7,5	32	24,0	1,91	1	0,60	- - -	☉ 2 L.
	49	6,4	10	51	46,5	54	21,0	46,60	..	. . .	49½ N	α *Urs. Maj.*
	2	32,0	11	3	51,0	5	6,4	50,86	1	1,97	8½ N	ξ *Leonis.*
	37	56,3	11	39	12,0	40	25,5	12,16	1	1,47	2½ N	β *Leonis.*
	58	55,0	12	0	14,0	1	30,0	13,99	1	1,9	34½ S	ε *Corvi.*
	4	38,3	12	5	54,5	7	8,0	54,58	1	2,13	29½ S	γ *Corvi.*
	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.											
17	31	37,0	3	32	55,0	34	10,3			+		
	33	51,4	3	35	9,3	36	25,0	2,31	1	3,0	- - -	☉ 1 L.
	49	8,4	10	51	49,0	54	23,3	48,92	1	2,27	49½ N	☉ 2 L.
	2	34,0	11	3	53,0	5	9,0	52,99	1	2,8	8½ N	α *Urs. Maj.*
	58	57,0	12	0	16,0	1	32,3	16,06	1	2,1	34½ S	ξ *Leonis.*
												ε *Corvi.*

In the YEAR M.DCCCXIII.

DAY OF THE MONTH.	I. Wire.	MERIDIAN.	III. Wire.	Reduction of Wires.	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
	M S	H M S	M S	S				
MAY 17	4 40,0	12 5 57,0	7 10,6	56,86	1	2,27	29½ S	*γ Corvi.*
	The COMET receding from the Earth, and the Moonlight increasing to the 15th of May, rendered it invisible to the naked eye, until this Evening, when it could just be seen—but was not to be distinguished from a Star of the 6th magnitude.							
18	35 36,6	3 36 54,7	38 10,0	2,0	1	+ 1,69	- - -	⊙ 1 L.
	37 51,4	3 39 9,0	40 24,5					⊙ 2 L.
	47 58,0	10 50 13,8	52 25,0	13,92	3	1,93	44½ N	*β Urs. Maj.*
	2 54,2	11 4 10,4	5 24,0	10,46	1	2,28	34 N	*θ Leonis.*
	- -	11 7 56,0	9 20,3	- -	..	....	19½ N	*ξ Urs. Maj.*
	38 1,0	11 39 17,0	40 30,0	16,96	2	2,37	2½ N	*β Leonis.*
	41 35,0	11 43 42,4	45 45,0	42,39	1	2,13	41½ N	*γ Urs. Maj.*
	58 59,0	12 0 17,8	1 34,0	17,89	1	1,83	34½ S	*ε Corvi.*
19	39 36,5	3 40 55,0	42 9,8	2,0	1	1,40	- - -	⊙ 1 L.
	41 51,4	3 43 9,0	44 24,5					⊙ 2 L.
	47 59,0	10 50 15,3	52 26,6	15,32	1	1,37	44½ N	*β Urs. Maj.*
	2 55,0	11 4 12,0	5 25,3	11,78	1	1,23	34 N	*θ Leonis.*
	38 2,0	11 39 17,8	4 31,0	17,86	1	0,93	2½ N	*β Leonis.*
	41 36,4	11 43 43,5	45 46,7	43,71	1	1,4	41½ N	*γ Urs. Maj.*
	59 0,0	12 0 19,3	1 35,0	19,14	1	1,17	34½ S	*ε Corvi.*
	4 43,0	12 5 59,8	7 13,0	59,61	1	1,23	29½ S	*γ Corvi.*
20	43 35,0	3 44 54,0	46 9,4	1,19	1	0,09	- - -	⊙ 1 L.
	46 50,5	3 47 8,0	48 24,4					⊙ 2 L.
	49 12,3	10 51 52,0	54 26,8	- -	3	1,16	49½ N	*α Urs. Maj.*
	2 37,8	11 3 56,0	5 12,0	56,21	3	1,09	8½ N	*ϑ Leonis.*
	6 31,3	11 7 58,5	9 22,4	58,40	2	1,15	19½ N	*ξ Urs. Maj.*
	38 2,0	11 39 18,5	40 32,0	18,46	1	0,57	2½ N	*β Leonis.*
	41 37,5	11 43 44,3	45 46,4	44,31	1	0,5	41½ N	*γ Urs. Maj.*
	59 1,0	12 0 20,0	1 35,7	19,91	1	0,8	34½ S	*ε Corvi.*
	4 43,6	12 6 0,4	7 14,0	0,31	1	0,73	29½ S	*γ Corvi.*
21	47 35,0	3 48 53,7	50 9,0	1,07	1	0,12	- - -	⊙ 1 L.
	49 50,0	3 51 8,4	52 24,4					⊙ 2 L.
	47 59,5	10 50 15,5	52 26,6	15,55	2	0,12	44½ N	*β Urs. Maj.*
	2 56,0	11 4 12,3	5 25,8	12,31	2	0,2	34 N	*θ Leonis.*
	6 31,4	11 7 58,3	9 22,0	58,22	1	−0,17	19½ N	*ξ Urs. Maj.*
	38 2,0	11 39 18,4	40 32,0	18,41	1	0,03	2½ N	*β Leonis.*
	41 37,0	11 43 44,0	45 46,3	44,01	1	0,30	41½ N	*γ Urs. Maj.*
	59 1,5	12 0 20,0	1 36,0	20,11	1	+0,27	34½ S	*ε Corvi.*
	4 44,0	12 6 0,4	7 14,0	0,41	1	0,13	29¼ S	*γ Corvi.*
22	- -	3 52 55,0	54 8,5	0,96	1	−0,41	- - -	⊙ 1 L.
	53 50,4	3 55 7,0	56 22,5					⊙ 2 L.
	49 12,5	10 51 52,7	54 26,5	52,60	2	+0,2	49½ N	*α Urs. Maj.*
	2 37,0	11 3 56,0	5 12,3	56,09	2	−0,17	8½ N	*ϑ Leonis.*
	6 32,8	11 7 59,0	9 22,5	58,92	1	+0,70	19½ N	*ξ Urs. Maj.*
	EMERSION of JUPITER's *first* Satellite. Time by Clock (S.) 11h 24′ 17″. Mean Time 7h 25′ 22″,66. Planet high and clear: Observation good.							
	38 2,3	11 39 18,4	40 32,0	18,48	1	0,1	2½ N	*β Leonis.*
	41 37,4	11 43 44,5	45 46,3	44,36	1	0,3	41½ N	*γ Urs. Maj.*
	The COMET visible with the Telescope, but scarcely to the eye, this Evening—the Nucleus bright.							
23	55 36,5	3 56 54,6	58 10,5	2,73	1	+0,97	- - -	⊙ 1 L.
	57 52,0	3 59 10,6	0 26,3					⊙ 2 L.
	2 37,0	11 3 56,3	5 12,0	56,16	1	−0,0	8½ N	*δ Leonis.*
	6 32,5	11 7 59,4	9 22,8	59,25	1	+0,3	19½ N	*ξ Urs. Maj.*
	38 2,3	11 39 18,4	40 32,0	18,48	1	0,0	2½ N	*β Leonis.*

In the YEAR M.DCCCXIII.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
MAY 23	At 7 A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.											
24	59	37,5	4	0	56,0	2	11,5	3,53	1	0,60	. . .	⊙ 1 L.
	1	52,3	4	3	11,0	4	27,0					⊙ 2 L.
	Cloudy night.											
25	3	39,0	4	4	57,4	6	13,8	5,20	1	0,33	. . .	⊙ 1 L.
	5	54,0	4	7	12,5	8	28,5					⊙ 2 L.
	2	37,4	11	3	56,0	5	12,4	56,90	2	+0,09	8½ N	δ *Leonis.*
	6	32,0	11	7	59,0	9	22,3	58,85	2	0,10	19½ N	ξ *Urs. Maj.*
	38	2,4	11	39	18,5	40	32,0	18,56	2	0,01	2½ N	β *Leonis.*
	41	37,0	11	43	44,4	45	46,0	44,14	3	0,01	41½ N	γ *Urs. Maj.*
	4	44,4	12	6	0,5	7	13,8	0,51	3	—0,17	29½ S	γ *Corvi.*
	8	55,0	12	10	8,4	11	19,5	8,51	. .	. . .	12½ S	η *Virginis.*
	-	-	12	20	1,0	21	13,4	- -	. .	. . .	28½ S	δ *Corvi.*
	30	45,5	12	31	59,0	33	10,4	59,16	. .	. . .	13½ S	γ *Virginis.*
26	7	40,5	4	8	59,5	10	15,5					⊙ 1 L.
	9	56,0	4	11	15,5	12	30,6	7,27	1	0,33	. . .	⊙ 2 L.
	2	55,4	11	4	12,8	5	26,0	12,21	5	0,05	3½ N	θ *Leonis.*
	6	32,4	11	7	59,0	9	25,0	59,07	1	+0,37	19½ N	ξ *Urs. Maj.*

EMERSION of JUPITER's *second* Satellite.
Time by Clock (S.) 11h 34' 33". Mean Time 7h 19' 57",82.
Planet high and clear: still twilight: Observation good.

59	0,7	12	0	19,4	1	35,1	19,39	1	+0,07	34½ S	ε *Corvi.*
4	44,0	12	6	0,5	7	13,4	0,31	1	—0,27	29½ S	γ *Corvi.*
8	55,0	12	10	8,5	11	19,0	8,43	1	0,13	12½ S	η *Virginis.*
18	44,4	12	20	1,4	21	13,4	- -	1	0,20	28½ S	δ *Corvi.*
23	4,5	12	24	23,0	25	39,5	23,24	. .	. . .	35½ S	β *Corvi.*
30	46,0	12	31	59,4	33	10,0	59,38	1	0,17	13½ S	γ *Virginis.*

The COMET was visible with the Telescope—the Nucleus appearing bright and a considerable degree of light about the Coma—possibly it was very near some small fixed Star, which gave this brightness to the Nucleus—as on the 27th and 28th the COMET was invisible, and was not seen afterwards, though looked for every Evening for some days.

27	11	43,0	4	13	2,3	14	18,6	10,29	1	+0,02	- - -	⊙ 1 L.
	13	59,0	4	15	18,4	16	34,4					⊙ 2 L.
	2	37,0	11	3	56,0	5	12,3	56,06	2	—0,17	8½ N	δ *Leonis.*
	6	32,5	11	7	59,5	9	23,0	59,35	1	+0,20	19½ N	ξ *Urs. Maj.*
	4	43,8	12	6	0,3	7	13,0	0,16	1	—0,27	29½ S	γ *Corvi.*
	23	4,3	12	24	23,0	25	39,5	23,18	1	0,07	35½ S	β *Corvi.*
28	15	47,0	4	17	5,5	- -		- -	..	. . .	- - -	⊙ 1 L.
29	19	49,5	4	21	9,0	22	25,0	16,99	1	1,35	- - -	⊙ 1 L.
	22	5,6	4	23	25,3	24	41,5					⊙ 2 L.
	41	36,0	11	43	43,0	45	45,5	43,06	4	0,24	41½ N	γ *Urs. Maj.*
	59	0,5	12	0	19,4	1	35,0	19,31	3	0,03	34½ S	ε *Corvi.*
	4	43,4	12	6	0,5	7	13,4	0,16	2	+0,03	29½ S	γ *Corvi.*
	23	4,0	12	24	23,3	25	39,0	23,13	2	0,18	35½ S	β *Corvi.*
30	23	54,4	4	25	14,0	26	30,4	21,80	1	0,41	- - -	⊙ 1 L.
	26	10,5	4	27	29,5	28	46,0					⊙ 2 L.
	-	-	11	39	19,0	40	32,0	18,82	1	0,1	2½ N	β *Leonis.*
	23	4,0	12	24	23,3	25	39,4	23,21	1	0,13	35½ S	β *Corvi.*

A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.

In the YEAR M.DCCCXIII.

DAY of the MONTH	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters of the* STARS AND PLANETS.
MAY 31	27	59,4	4	29	18,0	30	34,4	26,54	1	— 0,06	- - -	☉ 1 L.
	30	15,4	4	31	34,5	32	51,5					☉ 2 L.
	18	44,0	12	20	1,5	21	13,4	- - -	4	+0,03	28½ S	δ *Corvi.*
	23	4,0	12	24	23,0	25	39,6	23,11	1	−0,03	35½ S	β *Corvi.*
	30	46,0	12	31	59,0	33	10,0	59,37	5	+0,03	13½ S	γ *Virginis.*
	45	29,4	12	47	3,6	48	35,0	3,80	..	...	26½ N	*Cor. Carol.*
JUNE 1	32	4,5	4	33	23,4	34	39,4	31,23	1	−0,61	- - -	☉ 1 L.
	34	20,0	4	35	39,0	36	55,0					☉ 2 L.
	Wound up the Clock: Arc of Vibration 1°: 38'.											
	- -		11	39	19,4	40	32,5	- -	2	+ 0,23	2½ N	β *Leonis.*
2	36	10,5	4	37	30,4	38	46,5	38,40	1	1,57	- - -	☉ 1 L.
	38	27,0	4	39	47,0	41	3,0					☉ 2 L.
3	40	46,7	4	41	36,0	42	53,0	44,62	1	0,22	- - -	☉ 1 L.
	42	33,5	4	43	53,0	45	9,5					☉ 2 L.
	8	56,5	12	10	10,0	11	20,5	9,95	3	0,58	12½ S	η *Virginis.*
	18	45,5	12	20	2,0	21	16,0	2,36	3	0,51	28½ S	δ *Corvi.*
	23	5,4	12	24	25,0	25	41,5	24,98	3	0,60	35½ S	β *Corvi.*
	30	48,0	12	32	1,6	33	11,5	1,37	3	0,68	13½ S	γ *Virginis.*
	45	30,4	12	47	4,5	48	36,0	4,70	3	0,22	26½ N	*Cor. Carol.*
	7	17,3	13	8	37,0	9	52,3	36,91	4	0,51	35½ S	γ *Hydræ.*
	13	57,0	13	15	11,0	16	23,4	11,31	4	0,50	23½ S	*Spicæ Virginis.*
4	44	24,0	4	45	43,5	47	0,5	51,89	1	0,87	- - -	☉ 1 L.
	46	40,3	4	48	0,0	49	17,0					☉ 2 L.
	13	57,4	13	15	11,5	16	24,0	11,81	1	0,5	23½ S	*Spicæ Virginis.*
	25	58,0	13	27	59,0	29	54,4	58,68	..	...	65½ S	ζ *Centauri.*
	42	1,0	13	43	47,7	45	30,5	47,69	..	...	59½ S	λ *Centauri.*
5	48	30,5	4	49	50,6	51	7,5	59,30	1	0,71	- - -	☉ 1 L.
	50	48,8	4	52	7,0	53	24,8					☉ 2 L.
6	52	38,5	4	-	-	55	15,0	6,61	1	0,21	- - -	☉ 1 L.
	54	52,0	4	56	15,0	57	31,5					☉ 2 L.
	-	-	11	-	-	39	51,5	38,81	..	...	7½ S	☽ 1 L. 6h 40' 33',78 mean Time.
	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.											
7	56	47,0	4	58	6,0	59	22,5	14,33	1	+ 0,62	- - -	☉ 1 L.
	59	3,0	5	0	22,4	1	39,0					☉ 2 L.
	24	54,0	12	26	8,5	27	20,4	8,65	..	...	12½ S	☽ 1 L. 7h 23' 39',99 mean Time.
8	0	54,4	5	2	14,4	3	31,0	22,72	1	0,79	- - -	☉ 1 L.
	3	11,0	5	4	31,0	5	48,5					☉ 2 L.
	18	49,0	12	20	5,5	21	19,0	5,45	3	0,67	28½ S	δ *Corvi.*
	23	9,5	12	24	28,3	25	45,0	28,63	3	0,73	35½ S	β *Corvi.*
	30	51,5	12	32	4,7	33	15,0	4,67	3	0,68	13½ S	γ *Virginis.*
	45	34,0	12	47	8,5	18	40,0	8,65	5	0,77	26½ N	*Cor. Carol.*
	11	20,7	13	12	35,0	13	47,3	35,58	..	...	16½ S	☽ 1 L. 8h 6' 22',84 mean Time.
	-	-	13	15	15,0	16	27,3	15,32	4	0,85	23½ S	*Spicæ Virg.*
	26	0,0	13	28	1,4	29	57,0	1,03	4	0,58	65½ S	ζ *Centauri.*
	42	3,5	13	43	50,5	45	33,0	50,40	4	0,57	59½ S	λ *Centauri.*
9	5	2,4	5	6	22,5	7	40,0	31,23	1	0,70	- - -	☉ 1 L.
	7	19,4	5	8	40,0	9	57,0					☉ 2 L.
	30	52,0	12	32	5,0	33	15,5	5,07	1	0,43	13½ S	γ *Virginis.*
	43	25,5	12	45	40,4	47	49,5	40,23	..	...	44 N	ε *Urs. Maj.*
	14	1,5	13	15	15,5	16	27,9	15,66	1	0,25	23½ S	*Spicæ Virginis.*
	26	1,0	13	28	2,0	29	38,0	1,83	1	0,87	65½ S	ζ *Centauri.*
	42	4,0	13	43	51,0	45	33,5	50,89	1	0,5	59½ S	λ *Centauri.*
	57	35,0	13	58	30,5	0	2,5	50,42	..	...	20½ S	☽ 1 L. 8h 48' 32',68 mean Time.

In the YEAR M.DCCCXIII.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock. +	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
JUNE 10	9	12,0	5	10	32,5	11	49,4					☉ 1 L.
	11	29,3	5	12	49,4	14	6,0	40,78	1	1,45	- - -	☉ 2 L.
	10	51,0	12	20	7,5	21	21,0	7,46	2	1,0	28¼ S	*δ Corvi.*
	23	11,0	12	24	30,5	25	47,0	30,50	2	0,95	35½ S	*β Corvi.*
	43	26,5	12	45	41,0	47	51,0	41,16	1	1,03	44 N	*ε Urs. Maj.*
	14	2,5	13	15	17,0	16	29,0	17,08	1	1,4	23½ S	*Spicæ Virg.*
	26	2,5	13	28	3,5	29	59,6	3,35	1	1,53	65½ S	*ζ Centauri.*
	42	6,0	13	43	53,0	45	35,4	52,87	1	1,97	59½ S	*λ Centauri.*
	48	17,0	13	50	41,8	53	0,0	41,53	..	...	72½ S	*β Centauri.*
11	13	22,0	5	14	41,5	15	59,0					☉ 1 L.
	15	38,4	5	16	59,0	18	15,5	50,24	1	1,16	- - -	☉ 2 L.
	18	52,5	12	20	9,0	21	22,3	8,91	1	1,43	28½ S	*δ Corvi.*
	23	12,0	12	24	32,0	25	48,0	31,75	1	1,17	35½ S	*β Corvi.*
	30	54,4	12	32	8,0	33	18,7	7,97	1	1,7	13½ S	*γ Virginis.*
	43	28,0	12	45	42,4	47	52,5	42,61	1	1,47	44 N	*ε Urs. Maj.*
	51	34,0	12	52	49,0	54	1,0	48,95	..	...	1½ S	*ε Virginis.*
	7	24,4	13	8	44,0	10	0.0	43,85	1	1,4	35½ S	*γ Hydræ.*
	14	3,4	13	15	18,5	16	30,4	18,41	1	1,27	23½ S	*Spicæ Virg.*
	26	4,4	13	28	5,0	30	0,8	4,90	1	1,53	65½ S	*ζ Centauri.*
	42	7,0	13	43	54,0	45	36,5	53,84	1	0,97	59½ S	*λ Centauri.*
	48	18,3	13	50	43,0	53	1,7	42,88	1	1,4	72½ S	*β Centauri.*
12	17	31,5	5	18	51,0	20	8,8					☉ 1 L.
	19	49,0	5	21	9,0	22	26,0	0,23	1	1,89	- - -	☉ 2 L.
	18	51,5	12	20	10,4	21	24,0	10,54	1	1,7	28½ S	*δ Corvi.*
	30	56,0	12	.	.	33	20,0	9,55	1	1,45	13½ S	*γ Virginis.*
	42	9,0	13	43	56,0	45	38,3	55,84	1	2,0	59½ S	*λ Centauri.*
	48	20,4	13	50	45,0	53	3,5	44,80	1	1,97	72½ S	*β Centauri.*
13	21	42,0	5	23	2,4	24	19,5					☉ 1 L.
	23	59,5	5	25	20,0	26	37,0	11,08	1	2,15	- - -	☉ 2 L.
	30	58,0	12	32	11,5	33	22,0	11,45	1	2,0	13½ S	*γ Virginis.*
	43	30,0	12	45	46,0	47	55,7	45,71	2	1,47	44 N	*ε Urs. Maj.*
	51	37,5	12	52	52,0	54	4,4	52,19	2	1,65	1½ S	*ε Virginis.*
	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.											
14	25	50,5	5	27	14,0	28	30,5			+		☉ 1 L.
	28	10.0	5	29	30,0	30	45,0	21,80	1	1,82	- - -	☉ 2 L.
	51	59,4	12	52	54,0	54	6,5	51,19	1	2,0	1½ S	*ε Virginis.*
	EMERSION of JUPITER's *first* Satellite. Time by Clock (8.) 13h 9′ 1″. Mean Time 7h 39′ 9″,86. Planet sufficiently high: D just rising: Hazy: Observation good.											
	14	9.0	13	15	23,4	16	35,7	23,88	1	+ 1,7	23½ S	*Spicæ Virg.*
	42	13,0	13	43	59,0	45	41,7	59,19	2	1,74	59½ S	*λ Centauri.*
	48	23,0	13	50	48,3	53	7,0	48,03	2	1,57	72½ S	*β Centauri.*
15	30	3,0	5	31	23,4	32	40,5	31,91	1	1,14	- - -	☉ 1 L.
	32	20,0	5	33	41,0	34	57,5					☉ 2 L.
	31	0,0	12	32	14,6	33	25,0	14,25	2	1,35	13½ S	*γ Virginis.*
	43	34,0	12	45	49,0	47	58,7	48,96	2	1,67	44 N	*ε Urs. Maj.*
	51	40,8	12	52	55,5	54	7,7	55,59	1	1,37	1½ S	*ε Virginis.*
	7	30,0	13	8	50,0	10	6,8	49,95	4	1,53	35½ S	*γ Hydræ.*
	14	11,0	13	15	25,0	16	37,0	25,21	1	1,63	23½ S	*Spicæ Virg.*
	26	11,0	13	28	11,3	30	8.0	11,48	4	1,67	65½ S	*ζ Centauri.*
	42	14,3	13	44	0,0	45	48.0	0,32	1	1,2	59½ S	*λ Centauri.*
	48	25,0	13	50	50,0	53	9,0	49,88	1	1,9	72½ S	*β Centauri.*
16	34	13,4	5	35	33,6	36	51,0					☉ 1 L.
	36	31,0	5	37	51,3	39	8,4	42,47	1	1,36	- - -	☉ 2 L.

In the YEAR M.DCCCXIII.

DAY OF THE MONTH.		I. Wire.		MERIDIAN.			III. Wire.		Reduction of Wires.	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
		M	S	H	M	S	M	S	S				
JUNE	16	31	2,0	12	32	16,0	33	26,4	15,80	1	+1,6	13¼ S	*γ Virginis.*
		43	36,0	12	45	50,5	48	0,0	59,53	1	1,6	44 N	*ε Urs. Maj.*
		7	32,0	13	8	51,7	10	8,0	51,60	1	1,63	35¼ S	*γ Hydræ.*
		14	12,5	13	15	26,4	16	38,4	26,63	1	1,45	23¾ S	*Spicæ Virg.*
		26	12,5	13	28	13,0	30	9,4	13,05	1	1,53	65¼ S	*δ Centauri.*
		42	16,0	13	44	2,0	45	44,4	2,12	1	1,7	59¼ S	*λ Centauri.*
		48	26,5	13	50	51,5	53	10,4	51,35	1	1,47	72½ S	*β Centauri.*
	17	38	24,4	5	39	44,0	41	1,0	52,61	1	0,84	- - -	☉ 1 L.
		40	41,0	5	42	1,4	43	19,4					☉ 2 L.
		31	3,3	12	32	17,4	33	27,5	17,10	1	1,4	13½ S	*γ Virginis.*
		51	43,0	12	52	58,4	54	10,8	58,24	1	0,9	1½ S	*ε Virginis.*
		7	33,0	13	8	53,0	10	9,0	52,75	1	1,1	35½ S	*γ Hydræ.*
		14	13,0	13	15	27,5	16	39,5	27,58	1	0,9	23¾ S	*Spicæ Virg.*
		26	13,0	13	28	13,8	30	10,3	13,80	1	0,73	65¼ S	*δ Centauri.*
		42	16,6	13	44	3,0	45	45,0	2,92	1	0,73	59¼ S	*λ Centauri.*
		48	27,0	13	50	52,0	53	11,0	51,88	1	0,53	72¼ S	*β Centauri.*
	18	7	34,0	13	8	54,0	10	9,8	53,58	1	0,93	35¼ S	*γ Hydræ.*
		48	28,0	13	50	53,0	53	11,7	52,80	1	0,90	72½ S	*β Centauri.*
		54	20,0	13	55	50,3	57	16,6	50,52	..	...	48½ S	*θ Centauri.*
		5	57,0	14	7	15,3	8	30,4	15,24	..	...	7½ N	*Arcturus.*
	19	46	42,6	5	48	4,5	49	22,0	13,39	2	0,99	- - -	☉ 1 L.
		49	2,0	5	50	22,0	51	39,5					☉ 2 L.
		43	38,0	12	45	52,4	48	2,0	52,48	2	0,57	44 N	*ε Urs. Maj.*
		51	41,0	12	52	59,6	54	11,5	59,39	2	0,57	1½ S	*ε Virginis.*
		7	35,0	13	8	54,6	10	10,7	54,48	1	0,83	35¼ S	*γ Hydræ.*
		14	14,4	13	15	29,0	16	40,8	29,01	1	0,7	23¾ S	*Spicæ Virginis.*
		26	15,0	13	28	15,0	30	11,4	15,18	2	0,72	65¼ S	*δ Centauri.*
		48	28,6	13	50	54,0	53	12,4	54,04	1	0,77	72½ S	*β Centauri.*
		54	21,0	13	55	51,3	57	17,5	51,29	1	0,97	48½ S	*θ Centauri.*
		5	57,7	14	7	16,0	8	31,0	15,92	1	0,67	7½ N	*Arcturus.*
	20	50	55,0	5	52	14,5	53	32,0	23,40	1	0,41	- - -	☉ 1 L.
		53	11,4	5	54	32,0	55	49,4					☉ 2 L.
		51	44,6	12	53	0,3	54	12,0	0,01	1	0,6	1½ S	*ε Virginis.*
		14	15,0	13	15	29,8	16	41,7	29,78	1	0,77	23¾ S	*Spicæ Virg.*
		5	58,5	14	7	17,0	8	31,8	16,82	1	0,87	7½ N	*Arcturus.*
		A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.											
	21	55	4,5	5	56	24,5	57	41,0	32,79	1	−0,21	- - -	☉ 1 L.
		57	21,0	5	58	41,0	59	58,6					☉ 2 L.
		51	45,0	12	53	1,0	54	12,5	- -	1	+0,53	1½ S	*ε Virginis.*
		14	15,8	13	15	30,2	16	42,0	30,26	1	0,5	23¾ S	*Spicæ Virg.*
		26	15,8	13	28	16,0	30	12,5	16,15	2	0,49	65¼ S	*δ Centauri.*
		42	19,0	13	44	5,8	45	47,8	5,62	3	0,54	59¼ S	*λ Centauri.*
		48	29,3	13	50	54,8	53	12,8	54,79	2	0,32	72½ S	*β Centauri.*
		54	22,0	13	55	52,3	57	18,6	52,32	2	0,52	48½ S	*θ Centauri.*
		5	58,8	14	7	17,4	8	32,4	17,24	1	0,43	7½ N	*Arcturus.*
		22	12,8	14	23	50,0	25	24,0	- -	..	...	54½ S	*ν Centauri.*
	22	59	14,0	6	0	34,0	1	51,5	42,98	1	0,69	- - -	☉ 1 L.
		1	31,0	6	2	52,0	4	9,5					☉ 2 L.
		51	45,4	12	53	1,2	54	12,8	0,86	1	0,3	1½ S	*ε Virginis.*
		14	15,4	13	15	29,6	16	41,6	29,76	1	−0,47	23¾ S	*Spicæ Virg.*
		5	58,5	14	7	17,0	8	32,0	16,87	1	0,37	7½ N	*Arcturus.*
	23	3	24,0	6	4	44,5	6	1,5	53,01	1	+0,43	- - -	☉ 1 L.
		5	41,0	6	7	2,0	8	19,0					☉ 2 L.
		7	36,0	13	8	56,0	10	11,4	55,37	4	0,26	35¼ S	*γ Hydræ.*
		14	15,0	13	15	30,0	16	42,0	29,96	1	0,13	23¾ S	*Spicæ Virg.*
		26	16,4	13	28	17,0	30	13,4	17,03	2	0,42	65¼ S	*δ Centauri.*
		42	19,6	13	44	6,2	45	48,0	6,02	2	0,2	59¼ S	*λ Centauri.*
		48	30,3	13	50	55,0	53	13,8	54,90	2	0,37	72¼ S	*β Centauri.*

In the YEAR M.DCCCXIII.

DAY. OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock. +	Zenith Distance.	Names or Characters of the STARS AND PLANETS.
JUNE 23	54	22,5	13	55	52,4	57	19,0	52,49	2	0,17	48½ S	θ *Centauri.*
	5	59,0	14	7	17,0	8	32,0	16,99	1	0,17	7½ N	*Arcturus.*
	-	-	14	23	51,0	25	25,0	- -	2	0,5	54½ S	κ *Centauri.*
24	7	34,0	6	8	54,3	10	11,5	2,89	1	0,38	- - -	☉ 1 L.
	9	51,0	6	11	11,5	12	29,0					☉ 2 L.
	14	16,0	13	15	30,2	16	42,0	30,31	1	−0,4	23¾ S	*Spicæ Virginis.*
	26	16,4	13	28	17,0	30	13,0	17,32	1	0,13	65½ S	δ *Centauri.*
	42	19,4	13	44	6,0	45	48,5	5,99	1	+0,03	59½ S	λ *Centauri.*
	48	30,3	13	50	55,0	53	14,0	54,95	1	0,07	72½ S	β *Centauri.*
	54	23,0	13	55	53,0	57	29,0	- -	1	0,70	48½ S	θ *Centauri.*
	5	59,0	14	7	17,5	8	32,3	17,32	1	0,27	7½ N	*Arcturus.*
	22	19,0	14	23	50,6	25	25,0	- -	1	−0,2	54½ S	κ *Centauri.*
25	11	43,4	6	13	4,0	14	20,5	12,29	1	+0,9	- - -	☉ 1 L.
	14	0,8	6	15	21,0	16	38,0					☉ 2 L.
	14	16,0	13	15	30,5	16	42,5	- -	1	0,13	23½ S	*Spicæ Virginis.*
	26	17,0	13	28	17,0	30	13,0	17,08	1	0,20	65½ S	δ *Centauri.*
	42	19,8	13	44	6,0	45	48,8	6,17	1	0,27	59½ S	λ *Centauri.*
	48	30,2	13	50	55,0	53	14,3	55,10	1	0,14	72½ S	β *Centauri.*
	54	23,0	13	55	53,0	57	19,7	53,39	1	−0,10	48½ S	θ *Centauri.*
	5	59,0	14	7	17,8	8	33,0	17,64	1	+0,34	7½ N	*Arcturus.*
	24	43,4	14	27	10,5	29	32,0	- -	..	...	73½ S	α *Centauri.*
26	15	53,5	6	17	13,3	18	31,2	22,44	1	0,75	- - -	☉ 1 L.
	18	11,0	6	19	31,0	20	48,4					☉ 2 L.
	26	17,0	13	28	17,4	30	13,5	17,40	1	0,3	65½ S	δ *Centauri.*
	42	20,2	13	44	6,5	45	49,2	6,62	1	0,43	59½ S	λ *Centauri.*
	5	59,5	14	7	18,0	9	33,6	17,86	1	0,24	7½ N	*Arcturus.*
	39	27,0	14	40	43,0	41	56,6	43,15	1	0,1	28½ S	α *Libræ.*
27	20	3,4	6	21	23,0	22	40,5	32,43	1	0,78	- - -	☉ 1 L.
	22	20,5	6	23	40,5	24	57,5					☉ 2 L.
	26	17,3	13	28	18,0	30	14,0	17,90	1	0,47	65½ S	δ *Centauri.*
	42	20,3	13	44	7,0	45	49,4	6,94	1	0,27	59½ S	λ *Centauri.*
	48	31,0	13	50	56,0	53	15,0	55,88	2	0,44	72½ S	β *Centauri.*
	6	0,0	14	7	18,4	8	33,6	18,34	1	0,5	7½ N	*Arcturus.*
	24	44,5	14	27	12,7	29	33,0	- -	2	0,55	73½ S	α *Centauri.*
	39	27,7	14	40	43,8	41	57,0	43,84	1	0,64	28½ S	α *Libræ.*

A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.

28	-	-	13	15	32,0	16	44,0	- -	3	0,5	23½ S	*Spicæ Virg.*
	26	18,0	13	28	18,3	30	14,8	18,48	1	0,6	65½ S	δ *Centauri.*
	42	21,0	13	44	7,3	45	50,0	7,42	1	0,53	59½ S	λ *Centauri.*
	48	32,0	13	50	56,4	53	15,6	56,48	1	0,67	72½ S	β *Centauri.*
	54	24,5	13	55	54,5	57	21,0	54,64	1	0,53	48½ S	θ *Centauri.*
	6	1,0	14	7	19,0	8	34,0	18,99	1	0,67	7½ N	*Arcturus.*
	24	45,0	14	27	13,4	29	34,0	- -	1	0,7	73½ S	α *Centauri.*
	-	-	14	40	44,3	41	57,6	- -	1	0,55	28½ S	α *Libræ.*
29	26	18,6	13	28	19,0	30	15,5	19,10	1	0,67	65½ S	δ *Centauri.*
	42	21,7	13	44	8,0	45	50,4	8,04	1	0,6	59½ S	λ *Centauri.*
	54	24,7	13	55	55,0	57	21,5	55,09	1	0,4	48½ S	θ *Centauri.*
	6	1,3	14	7	19,4	8	34,2	19,32	1	0,3	7½ N	*Arcturus.*
30	32	31,5	6	33	51,5	35	9,0	0,54	3	0,47	- - -	☉ 1 L.
	34	49,0	6	36	9,0	37	26,6					☉ 2 L.
JULY 1	39	31,3	14	40	47,0	42	0,0	47,08	3	0,85	28½ S	α *Libræ.*

Wound up the Clock: Arc of Vibration 1°: 39'.

In the YEAR M.DCCCXIII.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters of the* STARS AND PLANETS.
JULY 2	6	4,6	14	7	22,5	8	38,0	22,67	3	+ 1,13	7¼ N	*Arcturus.*
	5	58,4	15	7	12,5	8	24,0	12,58	..	...	21¼ S	*β Libræ.*
3	6	0,0	15	7	14,0	8	25,4	14,08	1	1,45	21¼ S	*β Libræ.*
4	49	9,5	6	50	29,5	51	46,3	37,90	4	1,29	- - -	☉ 1 L.
	51	26,3	6	52	46,5	54	8,0					☉ 2 L.
	6	7,0	14	7	25,3	8	40,0	25,17	2	1,2	7¼ N	*Arcturus.*
	Examined the Line of Collimation and Meridian adjustment—found both right.											
5	53	18,0	6	54	37,5	55	54,2	45,89	1	+ 0,79	- - -	☉ 1 L.
	55	34,0	6	56	54,3	58	11,0					☉ 2 L.
	6	2,5	15	7	16,0	8	27,5	16,47	2	1,1	21¼ S	*β Libræ.*
6	57	25,0	6	58	44,0	0	2,0	- -	..	...	- - -	☉ 1 L.
	59	41,0	7	1	2,0	2	15,0					☉ 2 L.
	41	23,4	13	42	39,0	43	50,8	38,79	..	...	18¼ S	☽ 1 L. 6h 45′ 51″,17 mean Time.
7	1	32,0	7	2	52,3	4	9,0	0,52	2	0,56	- - -	☉ 1 L.
	3	49,0	7	5	9,0	6	25,5					☉ 2 L.
8	5	40,0	7	6	59,5	8	15,0	7,52	1	0,80	- - -	☉ 1 L.
	7	55,0	7	9	16,0	10	32,5					☉ 2 L.
9	9	46,5	7	11	5,5	12	21,4	13,39	1	0,17	- - -	☉ 1 L.
	12	2,0	7	13	21,5	14	38,5					☉ 2 L.
	6	3,4	13	7	18,0	8	29,3	17,91	4	0,39	21¼ S	*β Libræ.*
	25	44,0	15	27	6,7	28	26,0	6,7	..	...	14¼ N	*α Corona Borealis.*
	4	20,0	16	5	38,0	6	52,8	- -	..	...	29¼ S	☽ 1 L. 8h 56′ 36″,89 mean Time.
10	13	52,0	7	15	9,5	16	28,5	20,32	1	1,23	- - -	☉ 1 L.
	16	12,7	7	17	28,5	18	45,0					☉ 2 L.
	39	38,0	14	40	54,3	42	7,0	54,15	..	...	28¼ S	*α Libræ.*
11	17	57,8	7	19	17,0	20	33,8	25,54	1	0,22	- - -	☉ 1 L.
	20	14,0	7	21	34,0	22	50,4					☉ 2 L.
	6	5,0	15	-	-	8	31,6	19,77	2	0,98	21¼ S	*β Libræ.*
	A. M. Examined the Line of Collimation and Meridian adjustment,—found the former right, but the latter a little out,—adjusted it.											
12	22	4,5	7	23	23,5	-	-	31,58	1	+ 0,64	- - -	☉ 1 L.
	24	40,0	7	25	40,0	26	55,0					☉ 2 L.
13	39	39,8	14	40	55,5	-	-	- -	..	...	28¼ S	*α Libræ.*
14	-	-	7	31	32,5	32	48,7	- -	..	...	- - -	☉ 1 L.
	32	29,5	7	33	48,7	*35	5,8					☉ 2 L.
	Western end of the Axis 0″,45 too high.											
	48	22,8	15	49	42,6	50	58,6	42,43	..	...	35 S	*δ Scorpionis.*
15	34	16,5	7	35	36,0	36	52,5	- -	..	...	- - -	☉ 1 L.
	36	33,8	*7	37	53,8	*39	9,4					☉ 2 L.
	Western end of the Axis 0″,02 too high.											
	6	7,8	15	9	22,4	8	33,5	22,26	..	...	21¼ S	*β Libræ.*

In the YEAR M.DCCCXIII.

DAY of the MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names* or *Characters* of the STARS AND PLANETS.
JULY 16	-	-	7	39	39,4	40	56,5	47,2	1	+ 0,8	- - -	☉ 1 L.
	40	36,8	7	41	56,0	*43	12,5					☉ 2 L.
	Western end of the Axis 0″,3 too high.											
	25	48,5	15	27	11,5	28	31,5	11,57	..	...	14¼ N	*α Coron. Boreal.*
17	42	23,6	7	43	42,7	44	58,5	- -	..	...	- - -	☉ 1 L.
	44	39,8	*7	45	59,6	*47	15,7					☉ 2 L.
	Western end of the Axis 0″,42 too high.											
18	-	-	7	-	-	-	-	- -	..	...	- - -	☉ 1 L.
	49	41,0	7	50	0,0	51	18,0	- -	..	...		☉ 2 L.
	8	57,0	16	-	-	11	36,5	- -	..	...	58¼ S	*α Scorpionis.*
	-	-	16	18	25,0	19	43,0	- -	..	...	39 S	*Antares.*
	Examined the Line of Collimation and Meridian adjustment,—found both right.											
19	50	28,5	7	51	47,0	53	3,0	- -	..	...	- - -	☉ 1 L.
	52	44,5	*7	54	4,4	*55	19,7					☉ 2 L.
	Western end of the Axis 0″,55 too high.											
	48	26,7	15	49	45,7	-	-	45,83	..	...	35 S	*δ Scorpionis.*
	17	31,8	16	18	25,5	19	44,5	25,63	..	...	39 S	*Antares.*
	Lowered the Western end of the Axis.											
20	54	39,0	7	55	49,5	57	4,8	- -	..	...	- - -	☉ 1 L.
	56	45,8	*7	58	1,6	*58	20,5					☉ 2 L.
	Eastern end of the Axis 0″,2 too high.											
	25	52,0	15	27	14,8	28	33,8	14,67	..	...	14¼ N	*α Coron. Boreal.*
21	58	30,5	7	59	48,8	1	4,5	- -	..	...	- - -	☉ 1 L.
	0	46,0	*8	2	4,5	*3	20,0					☉ 2 L.
	Eastern end of the Axis 0″,05 too low.											
	25	52,4	15	27	14,8	28	34,5	14,94	1	+ 0,37	14¼ N	*α Coron. Boreal.*
	3	48,6	16	5	1,5	6	12,5	1,75	..	...	16¼ S	*β Ophiuchi.*
22	2	31,0	8	3	49,5	5	5,0	57,36	..	...	- - -	☉ 1 L.
	4	46,7	8	6	5,0	7	20,7					☉ 2 L.
23	6	31,0	8	7	49,7	9	5,0	57,43	1	1,07	- - -	☉ 1 L.
	8	46,7	8	10	5,0	11	21,0					☉ 2 L.
	25	53,8	15	27	16,7	28	36,5	16,74	2	0,89	14¼ N	*α Coron. Boreal.*
	48	29,0	15	49	48,5	51	4,0	48,38	..	...	35 S	*δ Scorpionis.*
	3	50,5	16	5	3,8	6	14,6	3,90	2	1,05	16¼ S	*β Ophiuchi.*
	17	6,0	16	18	28,5	19	46,6	28,21	..	...	39½ S	*Antares.*
	26	8,5	16	27	22,5	28	34,0	22,61	..	...	23¼ S	*ζ Ophiuchi.*

In the YEAR M.DCCCXIII.

DAY of the MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days.	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
JULY 23	37	6,7	16	38	35,5	40	0,5	33,43	..	...	47 S	*ε Scorpionis.*
24	10	30,5	8	11	49,0	13	4,5					☉ 1 L.
	12	45,7	8	14	4,4	15	19,7	56,66	1	0,83	- - -	☉ 2 L.
	17	7,0	16	18	29,4	19	47,8	29,21	1	1,03	39½ S	*Antares.*
	26	8,8	16	27	24,0	28	35,7	23,86	1	1,17	23½ S	*ζ Ophiuchi.*
25	14	29,5	8	15	47,6	17	2,3					☉ 1 L.
	16	44,0	8	-	-	19	18,6	55,60	1	1,14	- - -	☉ 2 L.
	48	30,5	15	49	49,7	51	5,8	49,71	2	0,75	35 S	*δ Scorpionis.*
	3	51,6	16	-	-	6	15,7	5,07	2	0,55	16½ S	*δ Ophiuchi.*
	17	7,7	16	18	29,6	19	48,5	29,61	1	0,53	39½ S	*Antares.*
	26	9,6	16	27	24,5	28	36,5	24,51	1	0,7	23¼ S	*ζ Ophiuchi.*

MARS has been uncommonly bright these two Evenings, and his diameter through the Telescope is almost equal to that of ♈.—a part of his disc near the south eastern edge appears very luminous and clear—different from the other part of the disc, which is dingy and red: the Planet is near opposition.

										+		
26	18	27,5	8	19	45,5	21	1,0	53,03	1	0,13	- - -	☉ 1 L.
	20	42,5	8	22	0,5	23	15,0					☉ 2 L.
	25	55,0	15	27	17,8	28	37,0	17,72	3	0,31	14½ N	*α Coron. Bor.*
	48	30,0	15	49	49,5	51	6,0	49,53	1	−0,17	35 S	*δ Scorpionis.*
	53	49,0	15	55	6,6	56	21,7	6,74	..	...	32½ S	*β Scorpionis.*
	17	8,0	16	18	29,6	19	48,5	29,73	1	+0,1	39½ S	*Antares.*
	26	9,6	16	27	24,5	28	36,0	24,39	1	−0,17	23½ S	*ζ Ophiuchi.*
	37	8,0	16	38	36,3	40	2,0	36,58	2	+0,4	47 S	*ε Scorpionis.*
27	22	25,0	8	23	43,5	24	58.4	50,38	1	0,75	- - -	☉ 1 L.
	24	39,6	8	25	57,6	27	12,0					☉ 2 L.
	25	55,7	15	27	18,3	28	38,0	18,39	1	0,73	14½ N	*α Coron. Boreal.*
	17	8,4	16	18	30,0	19	48,8	30,11	1	0,37	39½ S	*Antares.*
	-	-	16	27	25,0	28	36,4	- - -	1	0,45	23½ S	*ζ Ophiuchi.*
28	26	22,4	8	27	39,5	28	55,0	46,80	1	0,32	- - -	☉ 1 L.
	28	38,4	8	29	53,3	31	9,0					☉ 2 L.
	25	56,0	15	27	19,0	28	38,4	18,92	1	0,47	14½ N	*α Coron. Boreal.*
	48	31,0	15	49	50,0	51	6,8	50,23	2	0,77	35 S	*δ Scorpionis.*
	17	9,0	16	18	30,8	19	49,5	30,83	1	0,7	39½ S	*Antares.*
	26	10,7	16	27	25,4	28	37,0	25,96	1	0,5	23½ S	*ζ Ophiuchi.*
	37	9,0	16	38	37,7	40	3,0	37,73	2	0,74	47 S	*ε Scorpionis.*
	48	8,0	16	49	22,3	50	34,0	22,38	..	...	3½ S	*κ Ophiuchi.*
	58	57,2	17	0	12,7	1	26,0	12,88	..	...	28½ S	*ψ Ophiuchi.*
29	30	18,0	8	31	35,6	32	50,0	42,46	1	0,16	- - -	☉ 1 L.
	32	32,0	8	33	49,5	35	3,5					☉ 2 L.
30	34	14,7	8	35	32,5	36	47,0	39,51	1	2,25	- - -	☉ 1 L.
	36	28,7	8	37	46,5	39	1,7					☉ 2 L.
	25	57,6	15	27	20,7	28	40,0	20,57	2	0,8	14½ N	*α Coron. Boreal.*
	48	33,0	15	49	52,0	51	8,5	52,16	2	0,95	35 S	*δ Scorpionis.*
	53	51,5	15	55	9,4	56	24,5	9,47	4	0,68	32½ S	*β Scorpionis.*
	3	54,0	16	5	7,7	6	18,4	7,63	4	0,62	16½ S	*δ Ophiuchi.*
	17	11,0	16	18	33,0	19	51,0	32,81	2	0,95	39½ S	*Antares.*
	26	12,0	16	27	26,8	28	39,0	26,89	2	0,79	23½ S	*ζ Ophiuchi.*
	37	10,8	16	38	39,4	40	4,5	39,40	2	0,83	47 S	*ε Scorpionis.*
	48	9,0	16	49	24,0	50	35,7	23,90	2	0,74	3½ S	*κ Ophiuchi.*
31	38	10,0	8	39	27,0	40	42,0	34,25	1	0,54	- - -	☉ 1 L.
	40	23,4	8	41	41,4	42	55,5					☉ 2 L.
	25	58,5	15	27	21,7	28	40,7	21,47	1	0,87	14½ N	*α Coron. Boreal.*
	48	34,4	15	49	54,0	51	10,0	53,88	1	1,63	35 S	*δ Scorpionis.*
	53	53,4	15	55	11,0	56	25,6	11,02	1	1,53	32½ S	*β Scorpionis.*
	3	50,0	16	5	9,6	6	19,8	9,48	1	1,77	16½ S	*δ Ophiuchi.*
	-	-	16	18	34,4	19	52,5	34,16	1	1,45	39½ S	*Antares.*
	26	14,0	16	27	28,8	28	40,5	28,76	1	1,83	23½ S	*ζ Ophiuchi.*
	59	0,0	17	0	16,0	1	29,6	16,15	1	1,83	28½ S	*ψ Ophiuchi.*

In the YEAR M.DCCCXIII.

DAY of the MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.		Names or Characters of the STARS AND PLANETS.
AUGUST 1	Wound up the Clock: Arc of *Vibration* 1°: 39″,5.												
	17	14,0	16	18	35,6	19	54,0	35,61	1	+ 1,35	39½	S	*Antares.*
	37	14,0	16	38	42,0	40	7,5	42,20	2	1.47	47	S	*ε Scorpionis.*
	59	1,4	17	0	17,7	1	31,0	17,66	1	1,5	28¼	S	*η Ophiuchi.*
	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.												
2	46	0,3	8	47	18,0	48	32,5	24,56	2	+ 0,92	- - -		☉ 1 L.
	48	14,0	8	49	31,3	50	45,5						☉ 2 L.
	48	37,6	15	49	57,0	51	13,8	57,02	2	1,58	35	S	*δ Scorpionis.*
	53	56,5	15	55	14,0	56	29,0	14,14	2	1,63	32½	S	*β Scorpionis.*
	3	59,5	16	5	12,6	6	24,0	12,86	2	1,79	16½	S	*δ Ophiuchi.*
	17	16,3	16	18	37,5	19	56,0	37,63	1	2,07	39½	S	*Antares.*
	37	15,6	16	38	44,0	40	9,5	44,07	1	1,87	47	S	*ε Scorpionis.*
3	49	55,5	8	51	12,4	52	27,5	19,97	1	2,11	- - -		☉ 1 L.
	52	8,3	8	53	25,5	54	39,5						☉ 2 L.
	17	17,0	16	18	39,0	19	57,7	38,98	1	1,3	39½	S	*Antares.*
	37	18,0	16	38	46,0	40	11,0	46,07	1	1,97	47	S	*ε Scorpionis.*
	59	5,0	17	0	21,0	1	34,8	21,16	2	1,78	28¼	S	*η Ophiuchi.*
4	-	-	8	-	-	56	19,0	12,25	1	1,48	- - -		☉ 1 L.
	55	52,0	8	57	18,5	58	32,0						☉ 2 L.
	-	-	15	50	0,5	51	17,0	0,57	2	1,80	35	S	*δ Scorpionis.*
	53	59,5	15	55	18,0	56	33,3	17,97	2	1,89	32½	S	*β Scorpionis.*
	4	2,5	16	5	16,0	6	27,0	16,10	2	1,57	16½	S	*δ Ophiuchi.*
	17	19,0	16	18	40,6	19	59,0	40,61	1	1,63	39½	S	*Antares.*
	26	20,6	16	27	35,5	28	47,0	35,34	2	1,94	23½	S	*ξ Ophiuchi.*
	37	19,0	16	38	47,7	40	12,7	47,60	1	1,47	47	S	*ε Scorpionis.*
	48	18,0	16	49	32,3	50	44,0	32,33	5	1,71	34	S	*κ Ophiuchi.*
	59	6,8	17	0	22,7	1	36,3	22,83	1	1,67	28¼	S	*η Ophiuchi.*
5	57	41,5	8	58	58,4	0	12,4	4,87	1	1,52	- - -		☉ 1 L.
	59	54,3	9	1	11,4	2	25,5						☉ 2 L.
	45	29,0	15	46	45,8	48	0,5	45,98	..	...	28½	S	☽ 1 L. 6ʰ 51′ 14″,26 mean Time.
	54	1,5	15	55	19,0	56	34,2	19,19	1	1,3	32½	S	*β Scorpionis.*
	4	4,0	16	5	17,0	6	28,0	17,13	1	1,17	16½	S	*δ Ophiuchi.*
	17	20,4	16	18	42,0	20	0,0	41,91	1	1,27	39½	S	*Antares.*
	26	22,0	16	-	-	28	48,8	36,79	1	1,6	23½	S	*ζ Ophiuchi.*
	37	20,0	16	38	48,8	40	14,0	48,72	1	1,13	47	S	*ε Scorpionis.*
	59	8,0	17	0	24,0	1	37,7	24,13	1	1,3	28¼	S	*η Ophiuchi.*
6	1	35,0	9	2	50,5	4	4,4	56,86	1	1,49	- - -		☉ 1 L.
	3	56,0	9	5	3,0	6	16,5						☉ 2 L.
	17	21,7	16	18	43,0	20	1,5	43,11	1	1,27	39½	S	*Antares.*
	35	13,4	16	36	32,0	37	48,4	32,17	..	...	31½	S	☽ 1 L. 7ʰ 36′ 55″,05 mean Time.
7	5	24,4	9	6	41,5	7	56,0	47,38	1	1,12	- - -		☉ 1 L.
	7	37,2	9	8	54,4	10	8,0						☉ 2 L.
	48	44,0	15	50	3,8	51	20,5	3,81	3	1,13	35	S	*δ Scorpionis.*
	54	3,0	15	55	20,5	56	36,0	20,77	2	0,80	32½	S	*β Scorpionis.*
	4	5,0	16	5	19,5	6	30,0	19,32	2	0,92	16½	S	*δ Ophiuchi.*
	17	22,0	16	18	44,0	20	2,6	43,93	1	0,8	39½	S	*Antares.*
	26	24,0	16	27	38,0	28	50,0	38,19	1	0,9	23½	S	*ζ Ophiuchi.*
	37	22,0	16	38	50,4	41	16,0	50,32	2	0,94	47	S	*ε Scorpionis.*
	59	9,8	17	0	26,0	1	39,3	25,98	2	0,90	28¼	S	*η Ophiuchi.*
	26	45,0	17	28	4,6	29	20,5	4,40	..	...	33	S	☽ 1 L. 8ʰ 24′ 21″,91 mean Time.
9	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.												
11	20	45,3	9	22	1,0	23	15,2	7,44	4	+ 1,49	- - -		☉ 1 L.
	22	56,4	9	24	14,3	25	29,6						☉ 2 L.

In the YEAR M.DCCCXIII.

DAY of the MONTH.	I. Wire.	Meridian.	III. Wire.	Reduction of Wires.	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
	M S	H M S	M S	S		+		
August 11	37 27,5	16 38 56,3	40 21,0	56,10	4	1,57	47 S	ε *Scorpionis.*
	48 26,3	16 49 40,0	50 52,0	49,26	7	1,14	34 S	κ *Ophiuchi.*
	59 14.0	17 0 30,0	1 44,3	30,09	4	1,1	28½ S	η *Ophiuchi.*
	29 15,3	17 21 47,0	23 15,4	47,05	..	...	50 S	λ *Scorpionis.*
12	24 33,3	9 25 50,0	27 2.5					☉ 1 L.
	26 45,0	9 28 1.3	29 14,0	55,30	1	0,86	- - -	☉ 2 L.
	17 29,0	16 18 50,4	20 9,0	50,51	5	1,32	59½ S	*Antares.*
	26 30,0	16 27 44,5	28 55,0	44,44	5	1,03	23½ S	ζ *Ophiuchi.*
	37 28,0	16 38 57,0	40 22.0	56,82	1	0,73	47 S	ε *Scorpionis.*
	48 27,5	16 49 41.4	50 53.5	41,58	1	1,3	34 S	κ *Ophiuchi.*
	59 16,0	17 0 32,0	1 45,0	32,11	1	1,73	28½ S	η *Ophiuchi.*
	16 24,0	17 18 17.5	20 7.5	17,68	..	...	63 S	α *Arcæ.*
	23 6,5	17 24 46,5	26 23,0	46.56	..	...	56 S	β *Scorpionis.*
	- -	17 30 26,5	31 57,6	26,58	..	...	52½ S	κ *Scorpionis.*
13	17 30,5	16 18 51,0	20 10,0	51,38	1	0,97	39½ S	*Antares.*
	37 29,2	16 38 58,0	40 23.0	57,87	1	1,07	47 S	ε *Scorpionis.*
	48 28,5	16 49 42,4	50 54,5	42,58	1	1,0	34 S	κ *Ophiuchi.*
	59 17,0	17 0 33,0	1 47,0	33,21	1	1,13	28½ S	η *Ophiuchi.*
	16 25,0	17 18 18,4	20 8.5	18,53	1	0,9	63 S	α *Arcæ.*
	28 53,5	17 30 27,3	31 58,5	27,48	1	0,85	52½ S	κ *Scorpionis.*
	- -	17 35 8,0	36 19,0	8,01	..	...	8½ S	β *Ophiuchi.*
14	32 8,2	9 53 23,8	34 37,7					☉ 1 L.
	34 19,0	9 55 36,4	36 49,0	29,96	2	1,23	- - -	☉ 2 L.
	17 31,0	16 18 52,0	20 11,2	- -	1	0,97	39½ S	*Antares.*
	37 30,0	16 38 59,3	40 24,0	58,97	1	1,03	47 S	ε *Scorpionis.*
	48 29,2	16 49 43,3	50 55,0	43,38	1	0,77	34 S	κ *Ophiuchi.*
	59 18,2	17 0 34,2	1 48,0	34,41	1	1,17	28½ S	η *Ophiuchi.*
	5 46,0	17 7 1,3	8 15,0	1,71	..	...	1½ N	κ *Herculis.*
	20 18,8	17 21 50,5	23 19,0	50,57	3	1,18	50 S	λ *Scorpionis.*
	28 54,4	17 30 28,4	33 0,0	28,68	1	1,23	52½ S	κ *Scorpionis.*
	33 55,5	17 35 9,2	36 29,0	9,16	1	1,1	8½ S	β *Ophiuchi.*
15	35 55,5	9 37 11,0	38 24,0					☉ 1 L.
	38 6,0	9 39 22,5	40 35,0	16,52	1	1,26	- - -	☉ 2 L.
	26 33,4	16 27 48,0	28 59,4	47,89	1	1,1	23½ S	ζ *Ophiuchi.*
	37 31,5	16 39 0,6	40 25,4	0,35	1	1,4	47 S	ε *Scorpionis.*
	48 30,6	16 49 45,0	50 56,7	45,01	1	1,6	34 S	κ *Ophiuchi.*
	59 19,8	17 0 36,0	1 49,5	35,98	1	1,53	28½ S	η *Ophiuchi.*
	28 56,0	17 30 30,0	32 1.0	30.13	1	1,4	52½ S	κ *Scorpionis.*
	53 19,5	17 54 45,0	56 6,7	44,84	..	...	43½ S	γ *Sagittarii.*
	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.							
16	- -	9 40 57,4	42 10.5			+		☉ 1 L.
	41 52,0	9 43 8,7	44 22,0	2,86	1	1,44	- - -	☉ 2 L.
	48 32,0	16 49 46,5	50 58,0	46,43	1	1,4	34 S	κ *Ophiuchi.*
	59 21,0	17 0 37,4	1 59,2	37,21	1	1,17	28½ S	η *Ophiuchi.*
	5 49,0	17 7 4,5	8 18,0	4,71	2	1,5	1½ N	κ *Herculis.*
	20 21,0	17 21 53,0	23 21,0	52,87	2	1,12	50 S	λ *Scorpionis.*
	28 57,3	17 30 31,6	32 2,0	31,50	1	1,3	52½ S	κ *Scorpionis.*
	33 57,8	17 35 11,6	36 23,0	11,69	1	0,97	8½ S	β *Ophiuchi.*
	53 20,7	17 54 46,3	56 8,0	46,12	1	1,27	43½ S	γ *Sagittarii.*
	8 34,4	18 9 59,0	11 20,4	58,99	..	...	43 S	δ *Sagittarii.*
17	43 27,3	9 44 43,3	45 56,0					☉ 1 L.
	45 38,0	9 46 54,4	48 7,0	48,61	1	1,45	- - -	☉ 2 L.
	53 21,2	17 54 46,5	56 8,0	46,34	1	0,23	43½ S	γ *Sagittarii.*
	8 35,0	18 10 0,0	11 20,4	0.07	1	0,53	43 S	δ *Sagittarii.*
	16 3,6	18 17 24,3	18 42,5	24,28	..	...	38½ S	λ *Sagittarii.*
	30 1,6	18 31 35,3	33 5,5	35,15	..	...	25½ N	α *Lyræ.*
18	- -	16 49 47,5	50 59,3	- -	2	0.57	34 S	κ *Ophiuchi.*
	59 22,0	17 0 38,0	1 52,0	38,21	2	0,56	28½ S	η *Ophiuchi.*

In the YEAR M.DCCCXIII.

DAY of the MONTH.	I. Wire. M	S	Meridian. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock. +	Zenith Distance.		Names or Characters of the STARS and PLANETS.
August 18	-	-	17	24	53,0	26	29,0	52,73	5	1,02	56	S	θ *Scorpionis.*
	28	58,4	17	30	32,8	32	9,6	32,78	2	0,65	52½	S	κ *Scorpionis.*
	33	59,0	17	35	12,8	36	24,0	12,84	2	0,56	84	S	β *Ophiuchi.*
	53	22,0	17	54	47,0	56	9,0	47,04	1	0,73	43½	S	γ *Sagittarii.*
19	-	-	9	52	11,5	53	24,4	16,66	2	0,42	-	- -	☉ 1 L.
	53	6,4	9	-	-	-	-						☉ 2 L.
20	48	35,3	16	49	49,5	51	1,3	49,53	2	1,0	84	S	κ *Ophiuchi.*
	59	24,4	17	0	40,3	1	53,5	40,33	2	1,03	28½	S	η *Ophiuchi.*
	-	-	17	7	8,0	8	20,8	7,89	2	0,95	1½	N	α *Herculis.*
	16	32,0	17	18	25,4	20	15,0	25,51	7	0,94	63	S	α *Aræ.*
	-	-	17	30	35,0	32	5,0	35,03	2	0,9	52½	S	κ *Scorpionis.*
	34	1,3	17	35	15,0	36	26,0	15,01	2	1,08	84	S	β *Ophiuchi.*
	53	24,0	17	54	49,5	56	11,0	49,29	2	1,08	43½	S	γ *Sagittarii.*
	8	37,7	18	10	2,2	11	23,5	2,19	3	0,89	43	S	δ *Sagittarii.*
	16	5,0	18	17	26,5	18	45,3	26,58	3	0,78	38½	S	λ *Sagittarii.*
	30	3,0	18	31	57,4	33	8,0	57,33	3	0,73	25½	N	α *Lyræ.*
21	5	54,0	17	7	9,5	8	22,5	9,58	1	1,6	1½	N	α *Herculis.*
	-	-	17	18	27,0	20	16,5	-	1	1,55	63	S	α *Aræ.*
	23	16,0	17	24	56,3	26	32,0	56,08	3	1,05	56	S	θ *Scorpionis.*
	29	2,0	17	30	36,0	32	6,5	36,0	1	1,25	52½	S	κ *Scorpionis.*
	34	2,8	17	35	16,6	36	28,0	16,68	1	1,1	84	S	β *Ophiuchi.*
	53	25,6	17	54	50,5	56	12,5	50,57	1	1,37	43½	S	γ *Sagittarii.*
	8	39,2	18	10	4,0	11	25,6	3,99	1	1,8	43	S	δ *Sagittarii.*
	16	7,0	18	17	28,5	18	47,0	28,51	1	1,9	38½	S	λ *Sagittarii.*
	30	4,6	18	31	39,0	33	9,5	38,90	1	1,57	25½	N	α *Lyræ.*
22	2	9,4	10	3	24,4	4	37,2	29,72	3	1,92	-	- -	☉ 1 L.
	4	19,2	10	5	34,5	6	47,0						☉ 2 L.
	5	56,0	17	7	12,0	8	25,0	11,96	1	2,33	1½	N	α *Herculis.*
	20	28,3	17	22	0,0	23	28,5	0,08	6	1,21	50	S	λ *Scorpionis.*
	29	4,2	17	30	38,0	32	9,0	38,18	1	2,24	52½	S	κ *Scorpionis.*
	34	5,0	17	35	19,0	36	30,0	18,94	1	2,2	84	S	β *Ophiuchi.*
	53	28,0	17	54	53,0	56	15,0	53,04	1	2,47	43½	S	γ *Sagittarii.*
	8	41,5	18	10	6,4	11	27,8	6,32	1	2,3	43	S	δ *Sagittarii.*
	16	9,3	18	17	30,4	18	49,0	30,54	1	2,07	38½	S	λ *Sagittarii.*
	30	7,0	18	31	41,5	33	12,0	41,38	1	2,47	25½	N	α *Lyræ.*
	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.												
23	5	52,5	10	7	7,2	8	19,5	12,42	1	1,20	-	- -	☉ 1 L.
	8	2,4	10	9	17,3	10	30,0						☉ 2 L.
	16	37,0	17	18	31,0	20	20,0	30,83	2	1,57	63	S	α *Aræ.*
	23	20,2	17	24	59,4	-	-	-	2	1,82	56	S	θ *Scorpionis.*
	-	-	17	35	20,0	36	30,5	19,76	1	0,75	84	S	β *Ophiuchi.*
24	9	35,0	10	10	50,0	12	3,0	55,20	1	1,68	-	- -	☉ 1 L.
	11	45,0	10	13	0,0	-	-						☉ 2 L.
25	-	-	17	22	4,0	23	32,0	-	3	1,25	50	S	λ *Scorpionis.*
	29	8,0	17	30	42,4	32	13,4	42,43	3	1,4	52½	S	κ *Scorpionis.*
	34	9,0	17	35	22,0	36	33,0	22,19	2	1,12	84	S	β *Ophiuchi.*
	53	31,0	17	54	56,6	56	19,3	56,67	3	1,21	43½	S	γ *Sagittarii.*
26	16	58,5	10	-	-	-	-	18,27	2	1,03	-	- -	☉ 1 L.
	-	-	10	20	23,0	21	35,0						☉ 2 L.
	34	10,0	17	35	23,4	36	34,4	23,49	1	1,27	84	S	β *Ophiuchi.*
	8	46,7	18	10	11,0	11	32,8	11,17	4	1,3	43	S	δ *Sagittarii.*
	16	14,0	18	17	35,0	18	54,0	35,26	4	1,19	38½	S	λ *Sagittarii.*
27	20	40,4	10	21	55,0	23	7,3	59,74	1	1,57	-	- -	☉ 1 L.
	22	50,0	10	-	-	-	-						☉ 2 L.
	6	2,5	17	7	18,0	8	31,0	18,08	5	1,24	1½	N	α *Herculis.*
	16	42,0	17	18	35,5	20	25,0	35,56	4	1,21	63	S	α *Aræ.*

In the YEAR M.DCCCXIII.

DAY OF THE MONTH.	I. Wire.	MERIDIAN.	III. Wire.	Reduction of Wires.	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
	M S	H M S	M S	S				
AUGUST 27	23 25,0	17 25 5,0	26 41,0	4,93	4	+1,3	56 S	*β Scorpionis.*
	29 10,5	17 30 45,0	32 16,0	#4,93	2	1,12	52½ S	*κ Scorpionis.*
	34 11,5	17 35 23,3	36 36,5	25,58	1	1,84	84 S	*β Ophiuchi.*
	53 34,0	17 54 59,0	56 21,0	59,04	2	1,17	43½ S	*γ Sagittarii.*
	8 48,0	18 10 12,6	11 34,2	12,64	1	1,43	43 S	*δ Sagittarii.*
	16 16,0	18 17 37,0	18 55,4	37,11	1	1,8	38½ S	*λ Sagittarii.*
	30 13,8	18 31 47,7	33 18,0	47,68	5	1,76	25½ N	*α Lyræ.*
28	16 43,3	17 18 37,0	20 26,0	36,88	1	1,27	63 S	*κ Arcæ.*
	23 26,4	17 25 6,0	26 42,5	6,16	1	1,3	56 S	*β Scorpionis.*
	29 11,6	17 30 46,0	32 17,0	46,03	1	1,03	52½ S	*κ Scorpionis.*
	34 12,6	17 35 26,6	36 37,5	26,51	1	1,13	84 S	*β Ophiuchi.*
	48 42,0	17 49 56,7	51 8,0	56,54	1	1,27	23 S	*υ Ophiuchi.*
	53 35,3	17 55 0,2	56 22,5	0,34	1	1,33	43½ S	*γ Sagittarii.*
	8 49,3	18 10 14,0	11 35,0	13,87	1	1,17	43 S	*δ Sagittarii.*
	16 17,0	18 17 38,3	18 56,6	38,34	1	1,17	38½ S	*λ Sagittarii.*
	30 15,0	18 31 49,0	33 19,0	48,88	1	1,17	25½ N	*α Lyræ.*
	Fresh Oil applied to the Transit Clock.—The Clock stopt some seconds.							
29	27 58,5	10 29 13,4	- -	17,67	..	...	- - -	⊙ 1 L.
	- -	10 31 22,0	32 34,0					⊙ 2 L.
	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.							
30	31 41,6	10 32 56,4	34 8,5	0,78	..	...	- - -	⊙ 1 L.
	33 50,5	10 35 5,2	37 17,0					⊙ 2 L.
	30 17,0	18 31 51,4	33 22,0	51,33	..	...	25¼ N	*α Lyræ.*
	- -	18 44 55,0	46 14,0	- -	..	...	39½ S	*σ Sagittarii.*
	56 13,0	18 57 32,8	58 48,7	- -	..	...	35¼ S	*ο Sagittarii.*
	Clock stopt, owing to the new Suspender of the weight having stretched—the weight touching the bottom of the case. Wound up the Clock and set it nearly to the same time as before.							
31	35 26,3	10 - -	- -	- -	..	...	- - -	⊙ 1 L.
	- - -	10 38 49,3						⊙ 2 L.
SEPT. 1	Cloudy	Day.						
2	Cloudy	at Noon.						
	30 25,4	18 32 0,0	33 30,5	59,85	..	...	25½ N	*α Lyræ.*
	43 41,6	18 45 3,0	46 22,5	3,31	..	...	39¼ S	*σ Sagittarii.*
	36 21,0	18 57 40,5	58 56,6	40,40	..	...	35½ S	*ο Sagittarii.*
3	46 25,4	10 47 39,4	48 51,0	43,79	..	...	- - -	⊙ 1 L.
	48 33,5	10 49 48,3	50 59,5					⊙ 2 L.
4	50 4,4	10 51 18,8	52 30,3	22,99	1	+2,0	- - -	⊙ 1 L.
	52 12,4	10 53 27,4	54 39,0					⊙ 2 L.
	57 55,0	17 59 15,5	0 33,0	15,57	..	...	33½ S	☽ 1 L. 7h 4′ 42″,83 mean Time.
	9 4,4	18 10 29,5	11 50,2	29,19	..	...	43 S	*δ Sagittarii.*
	30 30,3	18 32 4,2	33 35,0	4,30	2	2,27	26½ N	*α Lyræ.*
	43 46,8	18 45 9,0	46 27,0	8,73	2	2,62	39½ S	*σ Sagittarii.*
	50 45,3	18 52 10,0	53 32,2	10,17	..	...	43½ S	*ζ Sagittarii.*
	55 54,0	18 57 13,4	58 30,0	13,50	..	...	35¼ S	*η Centrum.* 8h 2′ 31″,35 mean Time.
5	53 43,0	10 54 57,5	56 9,0	1,93	1	2,04	- - -	⊙ 1 L.
	55 52,4	10 57 6,0	58 18,0					⊙ 2 L.
	48 59,0	17 50 18,5	51 25,0	13,46	..	...	23 S	*υ Ophiuchi.*
	53 52,0	17 55 17,4	56 39,2	17,29	..	...	43½ S	*γ Sagittarii.*
	9 6,4	18 10 31,3	11 52,5	31,17	1	2,03	43 S	*δ Sagittarii.*

In the YEAR M.DCCCXIII.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	Names or Characters of the STARS AND PLANETS.
SEPT. 5	16	34,0	18	17	55,3	19	13,4	55,28	..	+ ...	38½ S	λ *Sagittarii.*
	30	52,4	18	32	6,0	33	36,8	6,18	1	1,9	25½ N	α *Lyræ.*
	43	47,3	18	45	9,5	46	28,4	9,45	1	1,47	39½ S	σ *Sagittarii.*
	51	35,5	18	52	56,3	54	13,4	- -	..	...	34 S	☽ 1 L. 7ʰ 54′ 16″,68 mean Time.
	55	51,0	18	57	10,5	58	27,0	- -	..	...	35½ S	♄ *Centrum.* 7ʰ 58′ 30″,35 mean Time.
	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.											
6	30	33,2	18	32	7,0	33	38,0	7,18	1	+ 1,0	25½ N	α *Lyræ.*
7	1	0,5	11	2	15,0	3	20,0	18,98	2	1,87	- - -	⊙ 1 L.
	3	9,4	11	4	23,0	5	34,5					⊙ 2 L.
8	4	39,5	11	5	54,4	7	5,5	38,20	1	2,92	- - -	⊙ 1 L.
	6	48,4	11	8	2,2	9	13,6					⊙ 2 L.
	53	59,5	17	55	24,0	56	46,0	24,12	3	2,3	43½ S	γ *Sagittarii.*
	16	41,0	18	18	2,0	19	20,6	2,18	3	2,32	38½ S	λ *Sagittarii.*
	30	39,0	18	32	13,0	33	43,0	12,88	2	2,80	25½ N	α *Lyræ.*
9	8	18,5	11	9	33,2	10	44,4	37,07	1	2,87	- -	⊙ 1 L.
	10	27,2	11	11	41,3	12	52,2					⊙ 2 L.
	49	9,6	17	50	24,5	51	35,4	24,21	4	2,57	23 S	υ *Ophiuchi.*
10	11	58,0	11	13	12,0	14	23,0	15,58	1	2,61	- - -	⊙ 1 L.
	14	5,7	11	15	19,6	16	30,0					⊙ 2 L.
	30	44,3	18	32	18,4	33	48,0	18,15	2	2,62	25½ N	α *Lyræ.*
	44	0,3	18	45	22,0	46	41,0	22,11	5	2,54	39½ S	σ *Sagittarii.*
	55	44,2	18	57	3,5	58	20,0	- -	..	...	35½ S	♄ *Centrum.* 7ʰ 38′ 32″,10 mean Time.
12	19	14,6	11	20	29,0	21	40,2	32,82	2	2,92	- - -	⊙ 1 L.
	21	23,0	11	22	36,0	23	48,5					⊙ 2 L.
	30	50,0	18	32	23,6	- -		23,86	2	2,73	25½ N	α *Lyræ.*
	55	45,0	18	57	4,8	58	21,8	4,91	..	...	35½ S	♄ *Centrum.* 7ʰ 20′ 35″,84 mean Time.
	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right. Lengthened the Pendulum 3 Divisions.											
13	22	35,0	11	23	48,5	24	59,3	52,83	..	...	- - -	⊙ 1 L.
	24	42,2	11	25	57,0	27	8,0					⊙ 2 L.
	-	-	18	10	32,4	11	54,5	32,50	..	...	43 S	δ *Sagittarii.*
	16	35,0	18	17	36,6	19	15,3	56,66	..	...	38½ S	λ *Sagittarii.*
	30	33,4	18	32	7,0	33	37,7	7,15	..	...	25½ N	α *Lyræ.*
	43	49,0	18	45	11,0	46	30,0	11,08	..	...	39½ S	σ *Sagittarii.*
	50	48,7	18	52	13,4	53	35,5	13,54	..	...	43½ S	ζ *Sagittarii.*
	55	27,8	18	56	46,3	58	3,3	46,73	..	...	33½ S	♄ *Centrum.* 7ʰ 26′ 37″,24 mean Time.
14	-	-	11	27	22,5	28	33,5	26,80	1	−1,53	- - -	⊙ 1 L.
	28	17,0	11	29	31,4	30	42,0					⊙ 2 L.
	41	54,4	19	43	9,4	44	21,0	9,26	..	...	4½ S	*Aquilæ.*
15	16	34,3	18	17	55,0	19	13,4	55,21	2	0,7	38½ S	λ *Sagittarii.*
	30	31,7	18	32	5,5	33	36,0	5,55	2	0,82	25½ N	α *Lyræ.*
	43	47,2	18	45	9,0	46	28,0	9,08	2	0,94	39½ S	σ *Sagittarii.*
	50	47,0	18	52	11,6	53	33,0	11,59	2	0,83	43½ S	ζ *Sagittarii.*
	55	29,0	18	56	42,0	57	59,4	42,82	..	...	33½ S	♄ *Centrum.* 7ʰ 18′ 41″,38 mean Time.
	58	49,2	19	0	7,0	1	23,2	7,93	..	...	34½ S	π *Sagittarii.*
	37	37,0	19	38	51,3	40	2,0	51,11	..	...	3 S	γ *Aquilæ.*
	41	55,6	19	43	9,0	44	20,0	8,22	..	...	4½ S	α *Aquilæ.*
	30	12,0	20	31	33,2	32	50,0	- -	..	...	37½ S	δ *Centrum.* 8ʰ 53′ 15″,66 mean Time.
16	16	32,5	18	17	54,0	19	12,3	53,98	1	1,3	38½ S	λ *Sagittarii.*
	30	30,5	18	32	4,0	33	35,0	4,10	1	1,24	25½ N	α *Lyræ.*

In the YEAR M.DCCCXIII.

DAY of the MONTH.	I. Wire.	Meridian.		III. Wire.	Reduction of Wires.	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters of the* STARS and PLANETS.
	M S	H M S		M S	S				
Sept. 16	43 46,5	18 45 8,2		46 27,0	8,21	1	— 0,9	39½ S	σ *Sagittarii.*
	" "	18 52 11,0		53 32,3	10,70	1	0,65	43½ S	ζ *Sagittarii.*
	55 21,4	18 56 40,8		57 57,4	40,92	..	....	35½ S	♄ *Centrum.* 7h 14′ 45″,96 mean Time.
	58 48,0	19 0 6,3		1 22,8	7,05	1	0,83	34½ S	π *Sagittarii.*
	37 36,2	19 38 50,4		40 1,7	50,39	1	0,67	3 S	γ *Aquilæ.*
	41 53,0	19 43 8,0		44 19,6	7,86	1	0,67	4½ S	α *Aquilæ.*
	31 0,0	20 32 20,6		33 38,0	20,62	..	....	— — —	♂ *Centrum.* 8h 50 9″,95 mean Time.
17	30 29,5	18 32 3,4		33 34,0	3,40	1	0,93	25½ N	α *Lyræ.*
	43 45,0	18 45 6,8		46 26,0	6,93	1	1,23	39½ S	σ *Sagittarii.*
	50 45,0	18 52 10,0		53 31,0	9,79	1	1,15	43½ S	ζ *Sagittarii.*
	55 20,0	18 56 39,4		57 56,3	39,58	..	....	35½ S	♄ *Centrum.* 7h 10′ 49″,76 mean Time.
	58 46,4	19 0 5,3		1 21,2	5,3	1	1,4	34½ S	π *Sagittarii.*
	37 35,0	19 38 49,0		40 1,0	49,21	1	1,43	3 S	γ *Aquilæ.*
	41 52,5	19 43 6,5		44 18,0	6,68	1	1,2	4½ S	α *Aquilæ.*
	31 50,0	20 33 10,7		34 28,0	10,66	..	....	— — —	♂ *Centrum.* 8h 47′ 5″,92 mean Time.
18	40 27,0	11 41 40,6		42 52,0	44,90	4	0,95	— — —	☉ 1 L.
	42 35,0	11 43 49,0		45 0,2					☉ 2 L.
	16 39,0	18 17 51,0		19 0,5	51,16	2	1,38	38½ S	λ *Sagittarii.*
	30 *27,8	18 32 2,0		33 32,3	1,90	1	1,53	25½ N	α *Lyræ.*
	43 43,5	18 45 5,4		46 24,5	5,48	1	1,47	39½ S	σ *Sagittarii.*
	50 43,4	18 52 8,3		53 30,0	8,29	1	1,43	43½ S	ζ *Sagittarii.*
	55 10,3	18 56 38,2		57 55,0	38,48	..	....	35½ S	♄ *Centrum.* 7h 0′ 53″,45 mean Time.
	58 45,4	19 0 4,3		1 19,7	4,18	1	1,17	34½ S	π *Sagittarii.*
	37 33,4	19 38 48,0		40 0,0	48,06	1	1,2	3 S	γ *Aquilæ.*
	41 51,0	19 43 5,5		44 17,0	5,48	1	1,17	4½ S	α *Aquilæ.*
	32 49,5	20 34 3,0		35 20,0	2,97	..	....	— — —	♂ *Centrum.* 8h 44′ 1″,84 mean Time.
19	44 1,0	11 45 15,0		46 26,2	19,03	1	1,37	— — —	☉ 1 L.
	46 10,0	11 47 23,3		48 34,0					☉ 2 L.
	30 26,5	18 32 0,5		33 31,0	0,43	1	1,47	25½ N	α *Lyræ.*
	43 42,0	18 45 4,0		46 23,0	4,03	1	1,43	39½ S	σ *Sagittarii.*
	50 41,7	18 52 7,0		53 28,4	7,52	1	1,53	43½ S	ζ *Sagittarii.*
	55 18,0	18 56 37,7		57 54,7	37,83	..	....	35½ S	♄ *Centrum.* 7h 2′ 58″,26 mean Time.
	58 43,4	19 0 2,8		1 18,7	2,69	1	1,5	34½ S	π *Sagittarii.*
	37 32,0	19 38 46,4		39 58,3	46,49	1	1,57	3 S	γ *Aquilæ.*
	41 49,2	19 43 4,0		44 15,4	3,86	1	1,63	4½ S	α *Aquilæ.*
	46 18,0	19 47 32,0		48 42,8	31,91	..	....	7½ S	β *Aquilæ.*
	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.								
20	47 35,5	11 48 48,2		49 59,5	52,77	1	1,86	— — —	☉ 1 L.
	49 43,0	11 50 57,0		52 8,0					☉ 2 L.
	30 24,0	18 31 58,0		33 29,0	58,19	1	2,23	25½ N	α *Lyræ.*
	43 40,4	18 45 2,0		46 20,5	2,01	1	2,03	39½ S	σ *Sagittarii.*
	50 39,8	18 52 4,7		53 26,0	4,59	1	2,2	43½ S	ζ *Sagittarii.*
	55 17,0	18 56 37,2		57 53,7	37,09	..	....	35½ S	♄ *Centrum.* 6h 59′ 3″,22 mean Time.
	58 41,8	19 0 0,3		1 16,4	0,46	1	2,13	34½ S	π *Sagittarii.*
	37 29,4	19 38 44,0		39 56,5	44,19	1	2,23	3 S	γ *Aquilæ.*
	41 47,5	19 43 2,0		44 13,0	1,83	1	2,03	4½ S	α *Aquilæ.*
	46 15,8	19 47 29,7		48 40,5	29,63	1	2,23	7½ S	β *Aquilæ.*
	34 35,4	20 35 56,0		37 12,4	55,76	..	....	— — —	♂ *Centrum.* 8h 38′ 5″,45 mean Time.
	Shortened the Pendulum 1½ Division.								
21	50 38,7	11 51 52,5		53 3,5	56,38	..	....	— — —	☉ 1 L.
	52 46,0	11 54 0,5		55 11,5					☉ 2 L.
	29 53,0	18 31 27,0		32 58,0	27,13	..	....	25½ N	α *Lyræ.*
	43 8,5	18 44 30,3		45 50,0	30,56	..	....	39½ S	σ *Sagittarii.*
	50 8,0	18 51 33,0		52 55,0	33,04	..	....	43½ S	ζ *Sagittarii.*
	54 48,2	18 56 8,0		57 23,8	7,81	..	....	35½ S	♄ *Centrum.* 6h 55′ 10″,55 mean Time.
	38 10,8	18 59 29,0		0 45,0	29,21	..	....	34½ S	π *Sagittarii.*
	36 38,4	19 38 13,0		39 24,6	12,96	..	....	3 S	γ *Aquilæ.*

In the YEAR M.DCCCXIII.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	Names or Characters of the STARS AND PLANETS.
SEPT. 21	45	44,5	19	46	58,8	48	9,5	58,61	..	. . .	7½ S	*β Aquilæ.*
	1	17,0	20	2	29,8	3	40,7	30,03	..	. . .	14½ S	*θ Antinoi.*
	6	52,0	20	8	7,8	9	20,0	7,63	..	. . .	26½ S	*α Capricorni.*
	35	6,7	20	36	27,0	37	44,0	26,98	..	. . .	- - -	*δ Centrum.* 8h 35′ 13″,23 mean Time.
22	54	14,8	11	55	28,2	56	40,0	32,71	1	+0,53	- - -	☉ 1 L.
	56	23,0	11	57	36,5	58	48,0					☉ 2 L.
	-	-	18	31	27,0	32	58,2	27,0	1	0,1	25½ N	*α Lyræ.*
	43	8,8	18	44	31,0	45	50,3	31,06	1	0,43	39½ S	*ε Sagittarii.*
	50	8,3	18	51	33,5	52	55,5	33,49	1	0,43	43½ S	*ζ Sagittarii.*
	54	50,0	18	56	10,0	57	26,8	10.01	..	. . .	35½ S	♄ *Centrum.* 6h 51′ 16″,47 mean Time.
	58	11,2	18	59	29,5	0	45,0	29,56	1	0,3	34½ S	*π Sagittarii.*
	36	59,0	19	38	13,8	39	25,0	13,61	1	0,4	3 S	*γ Aquilæ.*
	41	17,0	19	42	31,0	43	42,5	31,08	1	0,6	4½ S	*α Aquilæ.*
	45	45,0	19	46	59,0	48	10,0	58,96	1	0,4	7½ S	*β Aquilæ.*
	1	17,0	20	2	30,6	3	41,5	30,63	1	0,53	14½ S	*θ Antinoi.*
	6	53,0	20	8	8,4	9	20,0	8,17	1	0,53	26½ S	1 *α Capricorni.*
	36	11,0	20	37	32,3	38	49,0	32,8	..	. . .	- - -	*δ Centrum.* 8h 32′ 22″,19 mean Time.
23	57	51,2	11	59	4,4	0	16.0	8,98	1	0,47	- - -	☉ 1 L.
	59	59,4	12	1	13,0	2	24,3					☉ 2 L.
24	36	59.0	19	38	13,0	39	25,0	13,21	2	−0,14	3 S	*γ Aquilæ.*
	41	17,0	19	42	31,0	43	42,1	31,06	2	0,02	4½ S	*α Aquilæ.*
	45	45,4	19	46	59,2	48	10,0	59,16	2	+0,1	7½ S	*β Aquilæ.*
	1	17,4	20	2	30,5	3	41,4	30,65	2	0,03	14½ S	*θ Antinoi.*
	7	16.0	20	8	32,3	9	44,3	32,09	..	. . .	26½ S	2 *α Capricorni.*
	38	29,0	20	39	49,0	41	6,0	49,08	..	. . .	- - -	*δ Centrum.* 8h 26′ 46″,19 mean Time.
25	5	3,0	12	6	16,5	7	28,0	20,67	2	—0,2	- - -	☉ 1 L.
	7	16,4	12	8	25,0	9	35,5					☉ 2 L.
	29	53,6	18	31	28,0	32	53,2	27,83	3	+0,17	25½ N	*α Lyræ.*
	43	9,0	18	44	32,0	45	51,2	31,83	3	0,23	39½ S	*ε Sagittarii.*
	50	9,0	18	51	34,3	52	55,5	34,07	3	0,17	43½ S	*ζ Sagittarii.*
	54	59.3	18	56	19,4	57	35,3	19,21	..	. . .	35½ S	♄ *Centrum.* 6h 39′ 37″,75 mean Time.
	58	12,3	18	59	30,0	0	46,0	30,33	3	0,29	34½ S	*π Sagittarii.*
	36	59,0	19	38	14,0	39	26,0	13,96	1	0,67	3 S	*γ Aquilæ.*
	41	17,3	19	42	32,0	43	43,0	31,78	1	0,63	4½ S	*α Aquilæ.*
	45	45,5	19	47	0,0	48	10,3	59,66	1	0,4	7½ S	*β Aquilæ.*
	1	17,3	20	2	31,0	3	42,0	31,03	1	0,33	14½ S	*θ Antinoi.*
26	8	40,0	12	9	52,5	11	3,5	57,02	1	0,05	- - -	☉ 1 L.
	10	48,0	12	12	1,0	13	11,5					☉ 2 L.
	50	9,3	18	51	34,0	52	56,3	34,19	1	0,27	43½ S	*ζ Sagittarii.*
	55	3,0	18	56	22,8	57	39,0	22,71	..	. . .	35½ S	♄ *Centrum.* 6h 35′ 45″,24 mean Time.
	58	12,0	18	59	30,0	0	45,5	30,13	1	—0,27	34½ S	*π Sagittarii.*
	36	59,0	19	38	14,0	39	25,5	13,84	1	0,17	3 S	*γ Aquilæ.*
	41	17,2	19	42	31,5	43	43,0	31,51	1	0,2	4½ S	*α Aquilæ.*
	45	46,0	19	47	0,4	48	10,3	59.98	1	+0,30	7½ S	*β Aquilæ.*
	1	17,4	20	2	31,0	3	42,0	31,05	1	0,05	14½ S	*θ Antinoi.*
	7	17,0	20	8	32,0	9	45,0	32,22	2	0,47	26½ S	2 *α Capricorni.*
	40	56,2	20	42	16,0	43	33,0	15,86	..	. . .	- - -	*δ Centrum.* 8h 21′ 21″,06 mean Time.

A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.

27	55	7,6	18	56	27,0	57	43,0	26,96	..	. . .	35½ S	♄ *Centrum.* 6h 31′ 53″,19 mean Time.
	58	12,5	18	59	29,5	0	45,0	- -	1	0,03	34½ S	*π Sagittarii.*
	22	39,5	19	24	2,5	25	22,0	2,42	..	. . .	14½ N	*β Cygni.*
	36	59,5	19	38	14,0	39	25,5	13,96	1	0,17	3 S	*γ Aquilæ.*
	41	17,4	19	42	31,0	43	42,6	31,21	1	—0,23	4½ S	*α Aquilæ.*
	45	46,2	19	46	59,7	48	10,4	59,71	1	0,13	7½ S	*β Aquilæ.*
	1	17,2	20	2	31,0	3	41,8	30,95	1	0,2	14½ S	*θ Antinoi.*
	6	53,0	20	8	8,0	9	21,0	8,22	5	+0,2	26½ S	1 *α Capricorni.*
	10	5,0	20	11	21,4	12	35,0	21,46	..	. . .	28½ S	*β Capricorni.*
	42	13,3	20	43	33,0	44	49,5	33,0	..	. . .	- - -	*δ Centrum.* 8h 18′ 41″,68 mean Time.

In the YEAR M.DCCCXIII.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names* or *Character* of the STARS AND PLANETS.
										+		
SEPT. 28	15	52,4	12	-	-	18	17,3	10,09	2	0,98	- - -	☉ 1 L.
	18	0,2	12	-	-	20	25,0					☉ 2 L.
	55	11,3	18	56	31,0	57	48,0	31,13	..	...	35½ S	♄ *Centrum.* 6ʰ 28′ 1″,09 mean Time.
	58	13,0	18	59	29,4	0	45,3	- -	1	0,03	34½ S	*π Sagittarii.*
	22	40,0	19	24	3,3	25	22,5	3,07	1	0,60	14½ N	*β Cygni.*
	36	59,0	19	38	14,0	39	25,0	13,71	1	−0,33	8 S	*γ Aquilæ.*
	41	17,0	19	42	31,0	43	42,0	30,96	1	0,33	4½ S	*α Aquilæ.*
	45	46,8	19	47	0,4	48	11,0	0,36	1	+0,63	7½ S	*β Aquilæ.*
	1	17,0	20	2	31,0	3	41,5	30,88	1	0,17	14½ S	*θ Antinoi.*
	6	52,5	20	8	8,4	9	20,5	8,17	1	−0,20	20½ S	*1 α Capricorni.*
	10	5,3	20	11	21,4	12	34,7	21,43	1	0,0	28½ S	*β Capricorni.*
	43	32,0	20	44	52,0	46	8,4	51,91	..	...	- - -	♂ *Centrum.* 8ʰ 16′ 4″,72 mean Time.
29	19	29,0	12	20	42,5	21	53,4	46,3	1	0,59	- - -	☉ 1 L.
	21	36,2	12	22	50,5	24	1,5					☉ 2 L.
	50	9,0	18	51	24,0	52	56,0	- -	3	0,2	43½ S	*ζ Sagittarii.*
	55	17,0	18	56	36,0	57	53,0	36,0	..	...	35½ S	♄ *Centrum.* 6ʰ 24′ 11″,24 mean Time.
	58	13,0	18	59	30,0	0	45,5	30,38	1	0,27	34½ S	*π Sagittarii.*
	22	39,4	19	24	2,8	25	22,3	2,63	1	0,43	14½ N	*β Cygni.*
	36	59,3	19	38	14,0	39	26,0	14,04	1	+0,43	8 S	*γ Aquilæ.*
	41	17,2	19	42	31,0	43	42,0	31,01	1	0,07	4½ S	*α Aquilæ.*
	45	46,0	19	46	59,5	48	10,5	- -	1	−0,73	7½ S	*β Aquilæ.*
	1	17,3	20	2	30,8	3	41,6	- -	1	+0,07	14½ S	*θ Antinoi.*
	7	17,0	20	8	32,0	9	45,3	- -	3	0,03	20½ S	*2 α Capricorni.*
	10	6,0	20	11	21,6	12	35,0	21,78	1	0,4	28½ S	*β Capricorni.*
	44	54,0	20	46	13,0	47	30,0	13,0	..	...	- - -	♂ *Centrum.* 8ʰ 15′ 30″,49 mean Time.
	Clock stopt—the Suspender having run out.—Wound it up, and set it going again.											
30	22	4,0	19	23	26,0	24	46,0	26,29	..	...	14½ N	*β Cygni.*
	36	23,0	19	37	37,8	38	50,0	37,81	..	...	8 S	*γ Aquilæ.*
	40	41,0	19	41	55,5	43	6,6	55,36	..	...	4½ S	*α Aquilæ.*
	45	9,5	19	41	24,0	47	34,5	23,71	..	...	7½ S	*β Aquilæ.*
	0	41,5	20	1	55,0	3	5,5	54,95	..	...	14½ S	*θ Antinoi.*
	6	17,5	20	7	32,7	8	45,0	32,74	..	...	20½ S	*1 α Capricorni.*
	9	28,7	20	10	45,6	11	59,4	45,55	..	...	28½ S	*β Capricorni.*
OCT. 1	26	8,5	12	27	22,0	28	33,0	26,27	..	...	- - -	☉ 1 L.
	28	17,0	12	-	-	30	43,0					☉ 2 L.
	22	5,0	19	23	28,0	24	48,0	28,04	1	+1,67	14½ N	*β Cygni.*
	36	24,2	19	37	39,0	38	51,0	39,06	1	1,13	8 S	*γ Aquilæ.*
	40	42,3	19	41	57,4	43	8,0	56,58	1	1,54	4½ S	*α Aquilæ.*
	45	10,6	19	46	25,0	47	36,0	24,86	1	1,2	7½ S	*β Aquilæ.*
	0	43,3	20	1	56,6	3	7,3	56,65	1	1,74	14½ S	*θ Antinoi.*
	6	18,4	20	7	34,0	8	47,0	34,07	1	1,4	20½ S	*1 α Capricorni.*
	9	31,0	20	10	47,0	12	0,6	47,17	1	1,03	28½ S	*β Capricorni.*
	33	38,0	20	35	21,4	37	0,3	21,29	..	...	31½ N	*α Cygni.*
	-	-	20	38	56,4	40	21,0	56,44	..	...	20½ N	*ε Cygni.*
	47	8,5	20	48	28,0	49	44,0	27,88	..	...	- - -	♂ *Centrum.* 8ʰ 8′ 27″,49 mean Time.
2	22	5,0	19	23	28,0	24	48,0	28,05	1	0,0	14½ N	*β Cygni.*
	36	25,0	19	37	39,5	38	51,8	[illegible]	1	0,53	8 S	*γ Aquilæ.*
	40	43,0	19	41	57,2	43	8,0	57,06	1	0,17	4½ S	*α Aquilæ.*
	45	11,8	19	46	25,0	47	36,0	25,03	1	0,23	7½ S	*β Aquilæ.*
	0	43,7	20	1	57,0	3	7,4	56,98	1	0,3	14½ S	*θ Antinoi.*
	6	19,0	20	7	34,4	8	47,0	34,42	1	0,33	20½ S	*1 α Capricorni.*
	9	31,0	20	10	47,0	12	1,0	47,23	1	0,13	28½ S	*β Capricorni.*
	14	13,4	20	15	49,0	17	21,0	49,04	..	...	26½ N	*γ Cygni.*
	33	38,0	20	35	22,0	37	1,0	21,76	1	0,43	31½ N	*α Cygni.*
	37	29,0	20	38	57,0	40	21,0	56,87	1	0,30	20½ N	*ε Cygni.*
	48	36,6	20	49	55,5	50	12,0	55,66	..	...	- - -	♂ *Centrum.* 8ʰ 5′ 57″,35 mean Time.

IMMERSION of a TELESCOPIC STAR in SAGITTARIUS behind the ☽'s dark Limb.
Time by Clock (S.) 20ʰ 39′ 17″. Apparent Time 8ʰ 5′ 53″,1.

In the YEAR M.DCCCXIII.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	Names or Characters of the STARS AND PLANETS.
OCT. 3			12	34	38,0	35	49,5	42,27	2	0,20		☉ 1 L.
	35	33,5	12	36	46,6	37	58,0					☉ 2 L.
	21	12,5	19	22	32,5	23	49,6	32,58	..	. . .	34½ S	☽ 1 L. 6h 34′ 53″,71 mean Time.
	36	25,0	19	37	40,0	38	51,8	39,91	1	+0,33	3 S	γ *Aquilæ.*
	40	43,0	19	41	57,2	43	9,0	57,31	1	0,33	4½ S	α *Aquilæ.*
	45	11,0	19	46	25,0	47	36,2	25,01	1	−0,03	7½ S	β *Aquilæ.*
	0	44,0	20	1	57,0	3	7,7	57,13	1	+0,2	14½ S	θ *Antinoi.*
	6	43,0	20	7	58,2	9	9,0	58,33	..	. . .	26½ S	2 α *Capricorni.*
	9	31,6	20	10	47,7	12	1,0	47,75	1	0,43	28½ S	β *Capricorni.*
	14	13,5	20	15	49,0	17	21,0	49,05	1	0,04	26½ N	γ *Cygni.*
	33	38,3	20	35	22,0	37	1,0	21,84	1	0,10	31½ N	α *Cygni.*
	37	29,0	20	38	57,3	40	21,5	57,14	1	0,27	20½ N	ε *Cygni.*

IMMERSION of JUPITER'S *first* Satellite.
Time by Clock (S.) 6h 15′ 30″. Mean Time 17h 26′ 4″,17.
Planet sufficiently high, but generally clouded—it was clear, however, at the above time, when the Satellite was very faint, and probably would have been seen to disappear in 4 or 5 seconds; but Clouds intervened and prevented the exact time being observed.

A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.

4	22	5,6	19	23	28,0	24	48,0	28,19	2	+0,1	14½ N	β *Cygni.*
	36	25,0	19	37	40,2	38	52,0	40,06	1	0,13	3 S	γ *Aquilæ.*
	40	42,6	19	41	57,2	43	9,0	57,11	1	−0,13	4½ S	α *Aquilæ.*
	45	11,6	19	46	25,0	47	36,5	25,23	1	+0,3	7½ S	β *Aquilæ.*
	0	43,7	20	1	57,5	3	7,7	57,30	1	0,07	14½ S	θ *Antinoi.*
	6	43,0	20	7	58,0	9	10,0	57,97	1	0,27	26½ S	2 α *Capricorni.*
	9	32,0	20	10	48,0	12	1,0	48,08	1	0,23	28½ S	β *Capricorni.*
	15	30,5	20	16	50,0	18	6,0	50,0	..	. . .	32½ S	☽ 1 L. 7h 25′ 6″,85 mean Time.
	33	38,5	20	35	21,5	37	1,0	21,64	1	−0,10	31½ N	α *Cygni.*
	37	29,4	20	38	57,0	40	21,6	57,19	1	+0,07	20½ N	ε *Cygni.*
5	22	5,6	19	23	28,5	24	48,0	28,42	1	0,13	14½ N	β *Cygni.*
	36	25,0	19	37	40,0	38	51,5	39,84	1	−0,28	3 S	γ *Aquilæ.*
	40	43,0	19	41	57,0	43	9,0	57,21	1	+0,07	4½ S	α *Aquilæ.*
6	22	5,8	19	23	29,0	24	48,0	- -	1	0,10	14½ N	β *Cygni.*
	36	25,4	19	37	40,0	38	53,0	40,06	1	0,3	3 S	γ *Aquilæ.*
	40	43,0	19	41	57,0	43	9,0	57,21	1	0,0	4½ S	α *Aquilæ.*
	45	11,5	19	46	25,5	47	36,0	25,42	2	−0,02	7½ S	β *Aquilæ.*
	0	44,0	20	1	57,0	3	8,0	57,21	2	+0,01	14½ S	θ *Antinoi.*
	9	32,0	20	10	48,0	12	1,3	48,07	2	0,05	28½ S	β *Capricorni.*
	14	14,0	20	15	49,0	17	20,0	48,94	3	−0,06	26½ N	γ *Cygni.*
	33	39,0	20	35	22,0	37	0,5	21,89	2	+0,09	31½ N	α *Cygni.*
	37	29,4	20	38	57,0	40	22,0	57,22	2	0,07	20½ N	ε *Cygni.*
	54	46,0	20	56	5,0	57	20,0	- -	..	. . .	- - -	♂ *Centrum.* 7h 56′ 22″,68 mean Time.
7	47	59,4	12	49	13,0	50	24,4	17,33	4	0,21	- - -	☉ 1 L.
	50	8,0	12	51	21,0	52	34,3					☉ 2 L.
	36	25,4	19	37	40,0	38	52,2	40,11	1	0,07	3 S	γ *Aquilæ.*
	40	43,3	19	41	58,0	43	9,0	57,78	1	0,43	4½ S	α *Aquilæ.*
	45	12,0	19	46	26,0	47	36,5	25,83	1	0,5	7½ S	β *Aquilæ.*
	0	44,3	20	1	57,0	3	8,2	57,33	1	0,17	14½ S	θ *Antinoi.*
	9	32,0	20	-	-	12	1,5	48,12	1	0,07	28½ S	β *Capricorni.*
	33	39,0	20	35	22,4	37	1,0	22,19	1	0,3	31½ N	α *Cygni.*
	37	30,0	20	38	58,0	40	22,0	57,84	1	0,53	20½ N	ε *Cygni.*
	56	23,0	20	-	-	58	58,0	- -	..	. . .		♂ *Centrum.* 7h 54′ 3″,32 mean Time.
8	22	6,0	19	23	29,0	24	48,3	28,87	2	0,16	14½ N	β *Cygni.*
	36	25,5	19	37	40,0	38	52,0	40.09	1	−0.04	3 S	γ *Aquilæ.*
	40	43,0	19	41	57,7	43	9,0	57.56	1	0,2	4½ S	α *Aquilæ.*
	45	12,0	19	46	26,3	47	36.7	26,03	1	+0,17	7½ S	β *Aquilæ.*
	0	44,0	20	1	57,7	3	9,0	57,80	1	0,4	14½ S	θ *Antinoi.*
	6	19,5	20	7	35,0	8	47,6	35,0	2	0.46	26½ S	1 α *Capricorni.*
	9	32,0	20	10	48,2	12	1,5	48,22	1	0,0	28½ S	β *Capricorni.*

In the YEAR M.DCCCXIII.

DAY OF THE MONTH	I. Wire.		MERIDIAN.			III. Wire.		Reduction of Wires.	No. of Days	Rate of Clock.	Zenith Distance.	*Names* or *Characters* of the STARS AND PLANETS.
	M	S	H	M	S	M	S	S				
Oct. 8	14	14,0	20	15	50,0	-	-	- -	2	+ 0,25	26½ N	*γ Cygni.*
	33	39,0	20	-	-	37	2,0	22,54	1	0,5	31½ N	*α Cygni.*
	37	30,5	20	38	57,7	40	22,0	57,84	1	0,07	20½ N	*ε Cygni.*
	58	2,0	20	59	20,0	0	36,3	- -	..	. . .	- - -	*δ Centrum.* 7h 51' 45',52 mean Time.
9	14	14,0	20	15	49,8	17	21,8	49,79	1	−0,18	26½ N	*γ Cygni.*
	33	39,0	20	35	22,0	37	2,0	22,27	1	0,0	31½ N	*α Cygni.*
	37	30,0	20	38	57,7	40	22,0	57,72	1	0,17	20½ N	*ε Cygni.*
	59	42,0	21	1	0,4	2	16,0	0,45	..	. . .	33½ S	*δ Centrum.* 7h 49' 29',05 mean Time.
10	58	59,0	13	0	13,4	1	25,2	18,0	3	+0,23	- - -	⊙ 1 L.
	1	8,2	13	2	22,4	3	34,0					⊙ 2 L.
	36	26,0	19	37	40,3	38	52,0	40,36	2	0,17	3 S	*γ Aquilæ.*
	45	12,0	19	46	25,6	47	37,0	25,76	2	0,17	7½ S	*β Aquilæ.*
	0	44,0	20	1	57,7	3	8,6	57,70	2	−0,07	14½ S	*δ Antinoi.*
	9	32,0	20	10	48,5	12	1,5	48,34	2	+0,05	28½ S	*β Capricorni.*
	14	14,2	20	15	50,0	17	21,5	49,83	1	0,03	26½ N	*γ Cygni.*
	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.											
11	2	40,0	13	3	54,3	5	5,0	58,66	1	−0,34	- - -	⊙ 1 L.
	4	49,0	13	6	3,4	7	14,4					⊙ 2 L.
12	4	50,0	21	6	8,5	7	24,0	8,51	..	. . .	33½ S	*δ Centrum.* 7h 42' 48',63 mean Time.
14	13	46,2	13	15	0,3	16	11,4	6,12	3	+0,15	- - -	⊙ 1 L.
	15	55,0	13	17	10,0	18	22,0					⊙ 2 L.
15	17	30,0	13	18	45,0	19	55,0	47,96	1	−0,26	- - -	⊙ 1 L.
	19	38,0	13	-	-	-	-					⊙ 2 L.
	9	33,0	20	10	49,0	12	2,4	49,10	5	0,16	28½ S	*β Capricorni.*
	14	15,0	20	15	50,5	17	22,5	50,53	5	0,15	26½ N	*γ Cygni.*
	-	-	20	38	58,0	40	23,0	58,24	6	0,11	20½ N	*ε Cygni.*
	EMERSION of JUPITER's *third* Satellite. Time by Clock (S.) 6h 38' 47'. Mean Time 17h 2' 13',78. Planet sufficiently high: Twilight: ☽ up: Observation satisfactory.											
16	21	12,4	13	22	27,5	23	39,0	32,53	1	+ 0,87	- - -	⊙ 1 L.
	23	23,0	13	24	38,0	25	49,4					⊙ 2 L.
	0	46,0	20	1	58,3	3	9,0	58'81	6	0,17	14½ S	*δ Antinoi.*
	6	20,4	20	7	36,0	8	48,0	35'82	1	0,03	26½ S	*1 α Capricorni.*
	9	33,0	20	10	49,0	12	2,4	49,10	1	0,0	28½ S	*β Capricorni.*
	14	15,0	20	15	50,6	17	23,0	50,73	1	0,2	26½ N	*γ Cygni.*
	33	40,0	20	35	23,0	37	3,0	23,27	1	0,7	31½ N	*α Cygni.*
	12	2,0	21	13	20,0	14	35,5	20,12	..	. . .	32½ S	*δ Centrum.* 7h 34' 13',91 mean Time.
17	24	55,0	13	26	10,3	27	23,4	15,96	1	−0,97	- - -	⊙ 1 L.
	27	6,6	13	28	21,7	29	34,0					⊙ 2 L.
	-	-	20	1	58,0	3	9,2	58,26	1	0,0 3	14½ S	*δ Antinoi.*
	6	43,5	20	7	59,6	9	12,0	59,40	..	. . .	26½ S	*2 α Capricorni.*
	9	52,5	20	10	49,0	12	2,0	48,87	1	0,3	28½ S	*β Capricorni.*
	14	15,0	20	15	50,5	17	22,0	50,44	1	0,37	26½ N	*γ Cygni.*
	33	40,0	20	35	23,0	37	2,6	23,17	1	0,13	31½ N	*α Cygni.*
	13	53,0	21	15	11,0	16	25,0	10,75	..	. . .	32½ S	*δ Centrum.* 7h 32' 9',90 mean Time.
	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.											
18	28	40,0	13	29	55,0	31	7,0	0,48	1	− 0,39	- - -	⊙ 1 L.
	30	51,0	13	32	5,5	33	18,0					⊙ 2 L.
	-	-	20	7	59,0	9	11,5	58,97	1	0,55	26½ S	*2 α Capricorni.*
	-	-	20	10	48,6	12	1,5	48,41	1	0,45	28½ S	*β Capricorni.*

In the YEAR M.DCCCXIII.

DAY OF THE MONTH.		I. Wire. M	I. Wire. S	MERIDIAN. H	MERIDIAN. M	MERIDIAN. S	III. Wire. M	III. Wire. S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
Oct.	18	14	14,6	20	15	50,0	17	21,2	49,89	1	0,57	26½ N	*γ Cygni.*
		15	44,0	21	17	2,0	18	17,0	2,0	..	...	*32 S*	*δ Centrum.* 7h 30′ 4″,48 mean Time.
		-	-	21	22	1,5	23	12,0	- -	..	...	19½ S	*β Aquarii.*
		41	20,0	21	42	53,0	44	23,3	53,25	..	...	51½ S	*γ Gruis.*
		29	56,0	22	31	46,3	33	51,4	46,08	..	...	61 S	*β Gruis.*
	19	32	24,4	13	33	39,3	34	51,5	44,18	1	1,30	- - -	☉ 1 L.
		34	35,4	13	35	50,0	37	2,2					☉ 2 L.

IMMERSION of JUPITER's *first* Satellite.
Time by Clock (S.) 5h 33′ 40″. Mean Time 15h 41′ 25″,02.
Planet rather low: ☽ up and near, but in her last quarter: Observation good.

	20	36	9,0	13	37	24,2	38	36,4	29,73	1	1,15	- - -	☉ 1 L.
		38	20,4	13	39	35,5	40	47,0					☉ 2 L.
		14	12,5	20	15	48,0	17	19,2	47,86	2	1,01	26½ N	*γ Cygni.*
		33	36,6	20	35	20,0	36	59,5	20,04	2	1,23	31½ N	*α Cygni.*
		37	28,5	20	38	55,4	40	20,0	55,69	..	...	20½ N	*ε Cygni.*
		41	17,6	21	42	51,0	44	21,0	51,05	2	1,06	51½ S	*γ Gruis.*
		54	51,0	21	56	40,0	58	26,0	40,33	2	1,06	61 S	*α Gruis.*
	21	-	-	13	41	10,0	42	22,3	15,69	1	0,84	- - -	☉ 1 L.
		42	6,3	13	43	21,3	44	33,5					☉ 2 L.
		33	35,0	20	35	19,2	36	58,5	18,98	1	1,13	31½ N	*α Cygni.*
		41	16,4	21	42	50,0	44	20,0	50,02	1	1,07	51½ S	*γ Gruis.*
		54	50,0	21	56	39,0	58	25,0	39,33	1	1,0	61 S	*α Gruis.*
	22	43	38,2	13	44	56,0	46	8,2	1,54	1	1,75	- - -	☉ 1 L.
		45	52,0	13	47	7,0	48	20,0					☉ 2 L.
		14	10,2	20	15	45,0	17	17,0	45,24	2	1,25	26½ N	*γ Cygni.*
		33	35,0	20	35	18,0	36	57,0	18,02	1	0,9	31½ N	*α Cygni.*
		20	43,2	21	21	57,0	23	8,0	57,03	1	1,0	19½ S	*β Aquarii.*
		41	15,0	21	42	49,5	44	19,0	49,17	1	0,97	51½ S	*γ Gruis.*
	23	47	27,5	13	48	42,8	49	55,0	48,37	1	1,37	- - -	☉ 1 L.
		49	39,0	13	50	54,0	52	6,0					☉ 2 L.
		33	33,4	20	35	16,6	36	56,0	16,67	1	1,33	31¼ N	*α Cygni.*
		-	-	21	21	56,0	23	7,3	56,11	1	0,85	19½ S	*β Aquarii.*
		25	16,0	21	26	33,0	27	48,0	- -	..	...	31½ S	*δ Centrum.* 7h 20′ 1″,02 mean Time.
		33	59,3	21	35	12,0	36	25,0	- -	..	...	4¼ S	*ε Pegasi.*

IMMERSION of JUPITER's *fourth* Satellite.
Time by Clock (S.) 5h 53′ 8″. Mean Time 15h 45′ 12″,72.
Planet low, and flying Clouds;—after the Satellite had faded and appeared about entering the shadow, thick Clouds covered the Planet for several minutes,—the Observation not satisfactory in consequence.

	24	51	15,4	13	52	30,6	53	43,0	36,49	1	0,78	- - -	☉ 1 L.
		53	27,0	13	54	42,0	55	55,0					☉ 2 L.
		33	32,2	20	35	16,0	36	55,0	15,82	1	0,93	31½ N	*α Cygni.*
		-	-	21	21	55,0	23	6,0	54,95	1	1,15	19½ S	*β Aquarii.*
		27	13,5	21	28	30,0	29	45,0	- -	..	...	30½ S	*δ Centrum.* 7h 18′ 2″,60 mean Time.
		33	58,0	21	35	12,4	36	24,0	12,42	1	0,97	4¼ S	*ε Pegasi.*
		-	-	21	42	47,0	44	16,5	46,77	2	1,25	51½ S	*γ Gruis.*
		54	47,0	21	56	36,3	58	21,5	36,35	3	1,02	61 S	*α Gruis.*

A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.

	25	55	3,5	13	56	19,0	57	32,3	24,93	1	1,26	- - -	☉ 1 L.
		57	15,0	13	58	31,0	59	43,0					☉ 2 L.
		33	31,0	20	35	15,0	36	54,0	14,68	1	1,07	31½ N	*α Cygni.*

In the YEAR M.DCCCXIII.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names* or *Characters* of the STARS AND PLANETS.
Oct. 25	20	40,0	21	21	54,0	23	5,0	53,98	1	—	19½ S	β *Aquarii.*
	29	12,3	21	30	29,2	31	43,8	- -	..	...	30½ S	δ *Centrum.* 7h 16′ 6″,09 mean Time.
	33	57,0	21	35	12,0	36	23,3	11,80	1	0,7	4½ S	ε *Pegasi.*
	41	11,2	21	42	46,0	44	16,0	46,02	1	0,75	51½ S	γ *Gruis.*
	54	45,8	21	56	25,0	58	20,0	35,08	1	1,33	61 S	α *Gruis.*
26	Wound up the Clock: Arc of Vibration 1° 38′.											
	33	32,0	20	35	15,5	36	54,0	15,17	1	+ 0,43	31½ N	α *Cygni.*
	20	40,0	21	21	54,3	23	5,0	54,13	1	0,1	19½ S	β *Aquarii.*
	31	13,0	21	32	30,2	33	44,0	- -	..	...	30½ S	δ *Centrum.* 7h 14′ 10″,74 mean Time.
	-	-	21	35	12,3	36	23,3	12,47	1	0,15	4½ S	ε *Pegasi.*
	41	12,2	21	42	46,0	44	16,0	45,98	1	0,33	51½ S	γ *Gruis.*
	IMMERSION of JUPITER's *first* Satellite. Time by Clock (S.) 7h 55′ 30″. Mean Time 17h 55′ 28″,47 Planet high and clear, but twilight: Observation good.											
27	20	42,7	21	21	55,8	23	7,0	56,05	1	+ 2,07	19½ S	β *Aquarii.*
	33	17,0	21	34	34,0	35	48,2	- -	..	...	30½ S	δ *Centrum.* 7h 12′ 17″,57 mean Time.
	41	15,0	21	42	48,0	44	17,3	48,0	1	2,03	51½ S	γ *Gruis.*
	29	52,0	22	31	41,0	33	27,2	41,1	..	...	61 S	β *Gruis.*
28	33	36,0	20	35	19,5	36	58,0	19,27	2	2,04	31½ N	α *Cygni.*
	20	44,0	21	21	58,0	23	9,4	58,08	1	1,97	19½ S	β *Aquarii.*
	31	1,0	21	35	16,2	36	27,5	15,95	2	2,02	4½ S	ε *Pegasi.*
	41	16,2	21	42	50,0	44	20,0	49,95	1	2,0	51½ S	γ *Gruis.*
	54	50,0	21	56	39,4	58	24,5	39,40	3	2,18	61 S	α *Gruis.*
	29	33,6	22	31	43,0	33	28,0	42,98	1	1,47	61 S	β *Gruis.*
29	-	-	14	-	-	13	1,5	53,42	4	0,69	- - -	⊙ 1 L.
	12	45,0	14	14	0,0	15	14,5					⊙ 2 L.
	20	45,0	21	21	59,0	23	10,3	59,05	1	0,97	19½ S	β *Aquarii.*
	34	2,3	21	35	17,0	36	28,7	16,97	1	1,1	4½ S	ε *Pegasi.*
	-	-	21	38	42,0	39	55,0	42,0	..	...	20½ S	δ *Centrum.* 7h 8′ 29″,68 mean Time.
	41	17,0	21	42	51,0	44	21,0	50,90	1	0,97	51½ S	γ *Gruis.*
	54	51,0	21	56	40,2	58	25,5	40,50	1	0,97	61 S	α *Gruis.*
	29	54,3	22	31	44,0	33	29,0	43,90	1	0,9	61 S	β *Gruis.*
30	14	25,4	14	15	41,5	16	54,5	48,22	1	0,70	- - -	⊙ 1 L.
	16	39,0	14	17	55,0	19	8,0					⊙ 2 L.
	34	3,0	21	35	17,3	36	29,0	17,37	1	0,44	4½ S	ε *Pegasi.*
	39	29,5	21	40	46,0	42	0,0	46,11	..	...	29½ S	δ *Centrum.* 7h 6′ 36″,40 mean Time.
Nov. 1	A. M. Examined the Line of Collimation and Meridian adjustment,—found both *right.*											
	22	16,4	14	23	32,5	24	45,6	39,16	2	+ 0,69	- - -	⊙ 1 L.
	24	29,0	14	25	46,0	26	59,5					⊙ 2 L.
	47	0,4	20	48	19,0	49	35,3	19,20	..	...	32½ S	☽ 1 L. 6h 6′ 22″,70 mean Time.
	43	42,4	21	44	58,6	46	12,0	58,72	..	...	29 S	δ *Centrum.* 7h 2′ 52″,83 mean Time.
6	42	12,0	14	43	28,5	44	42,0	35,05	5	2,16	- - -	⊙ 1 L.
	44	26,3	14	45	43,0	46	57,3					⊙ 2 L.
	53	53,4	22	55	15,0	56	34,0	15,16	..	...	14 N	β *Pegasi.*
7	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.											
8	50	13,0	14	51	29,5	52	44,3	37,60	2	+ 0,82	- - -	⊙ 1 L.
	52	28,5	14	53	45,0	54	59,5					⊙ 2 L.

In the YEAR M.DCCCXIII.

DAY OF THE MONTH.	I. Wire.	MERIDIAN.	III. Wire.	Reduction of Wires.	No. of Days	Rate of Clock.	Zenith Distance.	*Names* or *Characters* of the STARS AND PLANETS.
	M S	H M S	M S	S		+		
Nov. 8	34 19,4	21 35 33,8	36 45,0	38,72	..	. . .	4½ S	ε *Pegasi.*
	41 34,4	21 43 8,0	44 37,0	8,11	..	. . .	51½ S	γ *Gruis.*
	55 7,5	21 56 57,4	58 42,0	57,15	..	. . .	61 S	α *Gruis.*
	33 56,0	22 55 18,0	56 37,0	18,06	2	1,43	14 N	β *Pegasi.*
9	54 15,0	14 55 32,5	56 46,6	40,30	1	1,40	- - -	⊙ 1 L.
	56 31,5	14 57 48,2	59 2,0					⊙ 2 L.
	34 21,0	21 35 35,5	36 47,4	35,57	1	1,9	4½ S	ε *Pegasi.*
	41 35,0	21 43 9,0	44 39,0	8,92	1	1,2	51½ S	γ *Gruis.*
	1 3,0	22 2 19,0	3 32,4	19,12	..	. . .	27½ S	♂ *Centrum.* 6h 48' 28",44 mean Time.
	30 13,0	22 32 2,4	33 48,0	2,53	1	1,67	61 S	β *Gruis.*
	35 47,4	22 37 47,0	39 43,0	47,28	..	. . .	65½ S	ε *Gruis.*
	46 28,0	22 47 53,8	49 15,3	53,57	..	. . .	44 S	*Fomalhaut.*
	53 57,0	22 55 20,0	56 39,0	19,81	1	1,67	14 N	β *Pegasi.*
10	58 19,0	14 59 36,3	0 50,0	44,08	1	1,68	- - -	⊙ 1 L.
	0 35,0	15 1 52,0	3 6,0					⊙ 2 L.
	53 58,0	22 55 21,0	56 40,0	20,81	1	1,0	14 N	β *Pegasi.*
11	2 22,5	15 3 40,0	4 54,0	48,15	1	1,67	- - -	⊙ 1 L.
	4 38,4	15 5 56,0	7 12,0					⊙ 2 L.
	34 23,0	21 35 37,5	36 49,3	37,55	2	0,99	4½ S	ε *Pegasi.*
	55 10,6	21 57 0,6	58 46,0	0,53	2	0,77	61 S	α *Gruis.*
	5 27,0	22 6 43,8	7 55,0	43,19	..	. . .	27 S	♂ *Centrum.* 6h 44' 56",25 mean Time.
	16 57,4	22 18 40,0	20 19,4	40,27	2	1,05	57½ S	δ *Gruis.*
	30 14,7	22 32 4,0	33 49,0	4,0	2	0,72	61 S	β *Gruis.*
	35 49,0	22 37 49,0	39 45,0	49,18	2	0,94	65½ S	ε *Gruis.*
	46 30,0	22 47 55,4	49 17,5	55,42	2	0,97	44 S	*Fomalhaut.*
	53 59,2	22 55 22,0	56 41,0	21,86	2	1,04	14 N	β *Pegasi.*
	IMMERSION of JUPITER'S *first* Satellite. Time by Clock (S.) 7h 14' 51'. Mean Time 15h 51' 34",29. Planet high and clear: ☽ up: Observation satisfactory.							
12	6 26,0	15 7 44,0	8 58,7	52,20	1	+ 0,25	- - -	1 ⊙ L.
	8 42,5	15 10 1,0	11 15,2					2 ⊙ L.
	41 38,5	21 43 12,0	44 42,4	12,15	1	0,77	51½ S	γ *Gruis.*
	55 11,5	21 57 1,5	58 46,7	1,38	1	0,64	61 S	α *Gruis.*
	7 39,4	22 8 55,0	10 8,0	55,12	..	. . .	26½ S	♂ *Centrum.* 6h 43' 11",38 mean Time.
	16 58,4	22 18 41,3	20 20,0	41,32	1	0,97	57½ S	δ *Gruis.*
	30 15,4	22 32 5,0	33 49,8	4,88	1	0,84	61 S	β *Gruis.*
	35 49,7	22 37 50,0	39 45,8	50,06	1	0,84	65½ S	ε *Gruis.*
	46 31,0	22 47 56,3	49 18,0	56,24	1	0,80	44 S	*Fomalhaut.*
	54 0,5	22 55 23,0	56 42,0	22,94	1	1,1	14 N	β *Pegasi.*
13	10 22,0	15 11 49,5	13 4,0	57,58	1	0,58	- - -	1 ⊙ L.
	12 48,4	15 14 5,2	15 20,3					2 ⊙ L.
14	14 38,0	15 15 55,0	17 11,0	33,7	1	0,68	- - -	1 ⊙ L.
	- -	15 18 12,4	- -					2 ⊙ L.
	55 13,0	21 57 3,0	58 49,0	3,08	2	0,89	61 S	α *Gruis.*
	30 17,4	22 32 7,0	33 52,0	6,98	2	1,03	61 S	β *Gruis.*
	46 33,0	22 47 58,0	49 20,0	58,09	2	0,78	44 S	*Fomalhaut.*
	54 2,0	22 55 25,0	56 44,0	24,81	2	0,92	14 N	β *Pegasi.*
	Wound up the Clock: Arc of *Vibration* 1°: 35'.							
18	21 6,3	22 22 22,0	23 34,4	21,94	..	. . .	25½ S	♂ *Centrum.* 6h 22' 53",52 mean Time.
19	A. M. Examined the Line of Collimation and Meridian adjustment,—found both a little out.—Adjusted the Instrument.							

In the YEAR M.DCCCXIII.

DAY OF THE MONTH.		I. Wire.		Meridian.			III. Wire.		Reduction of Wires.	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
		M	S	H	M	S	M	S	S		+		
Nov.	20	25	42,0	22	26	57,0	28	9,0	57,01	..	...	24½ S	♂ *Centrum.* 6h 29′ 27′,98 mean Time.
		46	47,0	22	48	11,5	49	34,0	11,84	..	...	44 S	*Fomalhaut.*
		54	15,0	22	55	37,8	56	57,0	37,71	..	...	14 N	*β Pegasi.*
	21	43	55,0	15	-	-	46	25,0	22,69	7	0,01	- - -	⊙ 1 L.
		-	-	15	47	31,5	48	47,5					⊙ 2 L.
		28	0,4	22	29	15,0	30	27,5	15,24	..	...	24½ S	♂ *Centrum.* 6h 27′ 46′,94 mean Time.
		58	19,0	23	59	42,3	1	2,4	42,32	..	...	15 N	*α Andromedæ.*
	22	48	9.5	15	49	28,0	-	-	- -	..	...	- - -	⊙ 1 L.
		50	29,0	15	-	-							⊙ 2 L.
		36	11,0	22	38	10,4	40	7,0	10,70	..	...	65½ S	*ε Gruis.*
		46	52,0	22	48	17,0	49	40.0	17,0	2	2,75	44 S	*Fomalhaut.*
		54	20,5	22	55	43,0	57	3,0	43,19	2	2,78	14 N	*β Pegasi.*
		58	21,6	23	59	45,0	1	5,0	44,97	1	2,63	15 N	*α Andromedæ.*
		3	21,0	0	4	37,4	5	50,0	37,20	1	2,8	1¼ N	*γ Pegasi.*
	26	30	49,0	22	32	38,4	34	24,0	38,53	6	2,97	61 S	*ε Gruis.*
		39	36,5	22	40	50,0	42	2,0	50,13	..	...	23 S	♂ *Centrum.* 6h 19′ 26′,98 mean Time.
		17*	3.0	22	48	29,0	49	51,5	28,97	4	2,88	44 S	*Fomalhaut.*
		54	32,0	22	55	55,0	57	14,0	54,96	4	2,93	14 N	*β Pegasi.*
		58	33,5	23	59	57,0	1	17,0	56,95	4	2,99	15 N	*α Andromedæ.*
		3	33,5	0	4	49,0	6	2,5	49,25	4	3,05	1¼ N	*γ Pegasi.*
	27	9	35,0	16	10	54,4	12	10,5	4,25	..	...	- - -	⊙ 1 L.
		11	55,0	16	13	14,4	14	30,0					⊙ 2 L.
		30	51,0	22	32	40,0	34	26,0	- -	1	1,87	61 S	*ε Gruis.*
		36	25,4	22	38	28,3	40	21,2	25,48	5	2,9	65½ S	*ε Gruis.*
		41	55,0	22	43	9,4	44	21,4	9,56	..	...	22½ S	♂ *Centrum.* 6h 17′ 47′,12 mean Time.
		47	6,0	22	48	32,0	49	54,4	31,94	1	2,97	44 S	*Fomalhaut.*
		54	35,0	22	55	57,4	57	17,0	57,51	1	2,60	14 N	*β Pegasi.*
		58	36.0	23	59	59,0	1	19,5	59,20	1	2,33	15 N	*α Andromedæ.*
		3	36,0	0	4	51,5	6	5,0	51,75	1	2,5	1¼ N	*γ Pegasi.*

IMMERSION of JUPITER's *first* Satellite.
Time by Clock (S.) 6h 31′ 55″. Mean Time 14h 5′ 14″,84.
Planet sufficiently high, but hazy: Observation not satisfactory.

EMERSION of JUPITER's *third* Satellite.
Time by Clock (S.) 9h 14′ 46″,5. Mean Time 16h 47′ 39″,37.
Planet high and very clear; Observation satisfactory.

28	13	55,0	16	15	13,4	16	30,0	23,85	1	2,70	- - -		⊙ 1 L.
	16	14,5	16	17	34,0	18	50,0						⊙ 2 L.
	30	53,8	22	32	43,0	34	23,4	43,13	1	2,73	61 S		*α Gruis.*
	36	28,3	22	38	28,6	40	24,0	28,56	1	3,0	65½ S		*ε Gruis.*
	47	9,0	22	48	34,6	49	57,0	34,64	1	2,73	44 S		*Fomalhaut.*
	54	37,0	22	56	0,0	57	19,5	59,94	1	2,37	14 N		*β Pegasi.*
	58	38,0	0	0	1,5	1	21,8	1,47	1	2,27	15 N		*α Androm*
	3	38,3	0	4	54,0	6	7,0	54,97	1	2,27	1¼ N		*γ Pegasi.*

A. M. Examined the Line of Collimation and Meridian adjustment,—found both tight.

29	18	14,0	16	19	33,0	20	49,5	43,45	1	2,10	- - -		⊙ 1 L.
	23	33,9	16	21	54,0	23	9,5						⊙ 2 L.
	36	31,0	22	38	30,8	40	20,4	30,93	1	2,43	65½ S		*ε Gruis.*
	47	11,0	22	48	36,5	49	59,0	36,59	1	1,97	44 S		*Fomalhaut.*
	54	39,5	22	56	2,7	57	22,0	2,54	1	2,47	14 N		*β Pegasi.*
	58	40,5	0	0	4,4	1	24,0	4,15	1	2,53	15 N		*α Andromedæ.*
30	22	34,4	16	23	54,0	25	10,4	4,37	1	2,72	- - -		⊙ 1 L.
	24	55,0	16	26	15,0	-	-						⊙ 2 L.

In the YEAR M.DCCCXIII.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.		Names or Characters of the STARS AND PLANETS.
Nov. 30	47	13,4	22	48	39,0	50	1,8	39,20	1	+ 2,57	44	S	*Fomalhaut.*
	54	42,0	22	56	5,0	57	24,0	4,81	1	2,27	14	N	*β Pegasi.*
	58	43,3	0	0	6,4	1	27,0	6,40	1	2,6	15	N	*α Andromedæ.*
	3	43,4	0	4	59,5	6	12,0	59,35	1	2,83	1¼	N	*γ Pegasi.*
Dec. 1	26	56,0	16	28	16,0	29	32,0	25,99	1	2,02	- - -		☉ 1 L.
	29	16,0	16	30	36,0	31	52,0						☉ 2 L.
	Wound up the Clock: Arc of Vibration 1°: 39'.												
	54	45,0	22	56	8,0	57	27,0	7,81	1	+ 3,0	14	N	*β Pegasi.*
	5	51,0	23	7	7,2	8	20,5	7,20	..	..	23	S	☽ 1 L. 6h 25' 47",25 mean Time.
	23	6,5	23	29	31,0	31	32,0	51,14	..	..	32½	N	*λ Andromedæ.*
	58	46,3	0	0	9,0	1	29,4	9,25	1	2,67	15	N	*α Andromedæ.*
	3	46,2	0	5	2,0	6	15,0	2,05	1	2,77	1¼	N	*γ Pegasi.*
	16	44,5	0	18	25,0	20	3,0	25,0	..	..	56½	S	*α Phœnicis.*
2	31	17,5	16	32	37,5	33	54,0	47,76	1	2,87	- - -		☉ 1 L.
	35	38,4	16	34	58,0	36	15,0						☉ 2 L.
	54	47,4	22	56	10,0	57	29,0	9,75	1	2,13	14	N	*β Pegasi.*
	23	9,0	23	29	54,0	31	34,4	53,87	1	2,97	32½	N	*λ Andromedæ.*
	58	12,0	23	59	27,5	0	40,0	27,42	..	..	18½	S	☽ 1 L. 7h 14' 0",75 mean Time.
	3	49,0	0	5	5,0	6	17,4	4,80	1	2,73	1¼	N	*γ Pegasi.*
	16	47,3	0	18	28,0	20	5,0	28,06	1	2,6	56½	S	*α Phœnicis.*
	29	16,0	0	31	26,2	33	31,0	26,12	..	..	42¼	N	*α Cassiopeiæ.*
	-	-	0	35	39,0	36	54,0	39,26	..	..	32½	S	*β Ceti.*
	-	-	0	46	59,4	49	20,0	59,50	..	..	46½	N	*γ Cassiopeiæ.*
3	-	-	16	37	2,5	38	16,0	58,11	..	..	- - -		☉ 1 L.
	-	-	-	-	-	40	37,0						☉ 2 L.
	54	50,0	22	56	12,4	57	32,0	12,51	1	2,67	14	N	*β Pegasi.*
	28	11,5	23	29	56,5	31	37,0	56,14	1	2,53	32½	N	*λ Andromedæ.*
	58	51,0	0	0	14,0	1	35,0	14,10	2	2,44	15	N	*α Andromedæ.*
	3	51,2	0	5	7,4	6	19,0	7,35	1	2,0	1¼	N	*γ Pegasi.*
	16	49,5	0	18	30,3	20	7,6	30,41	1	2,37	56½	S	*α Phœnicis.*
	29	19,0	0	31	28,4	33	33,3	28,54	1	2,5	42¼	N	*α Cassiopeiæ.*
	-	-	0	35	41,2	36	56,0	41,23	1	2,1	32½	S	*β Ceti.*
	51	41,0	0	52	56,0	54	9,0	- -	..	..	13	S	☽ 1 L. 8h 3' 21",21 mean Time.
	59	19,0	1	0	48,0	2	14,0	48,14	..	..	21¼	N	*β Andromedæ.*
4	38	18,0	22	59	33,0	0	44,4	- -	..	..	21	S	*δ Centaur.* 6h 6' 18",0 mean Time.
	58	53,0	0	0	16,0	1	37,4	16,1	1	2,13	15	N	*α Andromedæ.*
	3	53,3	0	5	9,4	6	21,4	9,12	1	2,17	1¼	N	*γ Pegasi.*
	16	52,0	0	18	32,5	20	9,7	32,66	1	2,27	56½	S	*α Phœnicis.*
	29	21,4	0	31	30,4	33	35,0	30,57	1	2,03	42¼	N	*α Cassiopeiæ.*
	34	25,0	0	35	43,3	36	58,5	43,28	1	2,3	32½	S	*β Ceti.*
5	44	25,0	16	45	45,0	47	1,5	55,51	3	1,85	- - -		☉ 1 L.
	46	46,4	16	48	6,0	49	23,0						☉ 2 L.
6	48	49,5	16	50	9,0	51	25,5	19,5	1	2,21	- - -		☉ 1 L.
	51	10,4	16	52	30,0	53	45,0						☉ 2 L.
	A. M. Examined the Line of Collimation and Meridian adjustment,—found the latter a little out.—Adjusted it.												
7	53	12,6	16	54	33,0	55	49,0	43,13	1	1,23	- - -		☉ 1 L.
	55	34,0	16	56	54,0	58	10,0						☉ 2 L.
8	57	36,4	16	58	56,4	0	13,0	7,0	1	1,07	- - -		☉ 1 L.
	59	58,0	17	1	17,0	2	35,0						☉ 2 L.
	58	59,0	0	0	23,0	1	43,4	22,92	..	..	15	N	*α Andromedæ.*
	3	59,2	0	5	15,0	6	28,3	15,12	..	..	1¼	N	*γ Pegasi.*
	16	57,3	0	18	38,0	20	15,0	38,06	..	..	56½	S	*α Phœnicis.*
	29	27,4	0	31	37,0	33	42,0	37,12	..	..	42¼	N	*α Cassiopeiæ.*

In the YEAR M.DCCCXIII.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	Names or Characters of the STARS AND PLANETS.
Dec. 8	34	32,0	-	-	-	37	5,0	49,96	..	....	32½ S	β *Ceti.*
	59	27,3	1	0	56,4	2	23,6	56,64	..	....	21¼ N	β *Andromedæ.*
9	59	1,0	0	0	24,4	1	44,5	24,40	1	+1,5	15 N	α *Andromedæ.*
	16	58,5	0	18	39,8	20	16,7	39,68	1	1,57	56¼ S	α *Phœnicis.*
	34	33,4	0	-	-	37	6,8	51,41	1	1,45	32½ S	β *Ceti.*
	59	29,0	1	-	-	2	24,5	58,40	1	1,56	21¼ N	β *Andromedæ.*
	42	44,8	1	-	-	45	28,5	8,30	..	....	15¼ N	α *Triang. Maj.*
	52	31,7	*1	54	11,0	55	43,6	- -	..	....	28¼ N	γ *Andromedæ.*
	58	39,0	2	-	-	1	34,0	8,24	..	....	21¼ N	β *Triang. Maj.*
	Western end of the Axis 1',3 too high.											
11	10	51,0	17	12	12,0	13	29,0	21,37	..	+	- - -	☉ 1 L.
	13	13,0	17	-	-	15	49,4					☉ 2 L.
	17	2,8	0	18	44,0	20	21,0	43,03	2	2,15	56¼ S	α *Phœnicis.*
	34	37,0	0	35	55,0	37	10,0	55,01	2	1,78	32½ S	β *Ceti.*
	59	33,0	1	1	2,0	2	28,0	2,12	2	1,87	21¼ N	β *Andromedæ.*
	58	43,0	2	0	12,0	1	37,6	12,02	2	1,9	21¼ N	β *Triang. Maj.*
13	34	42,0	0	35	59,5	37	14,0	59,51	2	2,25	32½ S	β *Ceti.*
	59	37,7	*1	1	8,0	2	32,5	- -	..	....	21¼ N	β *Andromedæ.*
14	59	12,8	*0	0	37,5	1	56,6	- -	..	....	15 N	α *Andromedæ.*
	4	12,4	0	5	28,0	6	41,0	28,10	6	2,16	1¼ N	γ *Pegasi.*
	17	10,4	0	18	50,8	20	28,5	51,11	5	2,39	56¼ S	α *Phœnicis.*
	29	40,0	0	31	50,4	33	55,0	50,22	6	2,17	42½ N	α *Cassiopeiæ.*
	59	40,6	*1	1	10,7	2	35,8	- -	..	....	21¼ N	β *Andromedæ.*
	30	15,5	1	32	35,0	34	49,5	35,11	..	....	71 S	*Achernar.*
	42	55,0	1	44	19,0	45	40,0	19,07	5	2,17	15¼ N	α *Triang. Maj.*
	Western end of the Axis 1',3 too high,—lowered it.											
16	33	11,5	17	34	32,0	35	50,0	- -	..	....	- - -	☉ 1 L.
	35	24,0	*17	36	53,5	*38	11,0					☉ 2 L.
	Eastern end of the Axis 0',62 too high.											
	Wound up the Clock: Arc of Vibration 1° 39'.											
	59	18,0	*0	0	41,4	2	1,8	- -	..	....	15 N	α *Andromedæ.*
	29	46,0	0	31	56,0	34	1,2	- -	..	....	42½ N	α *Cassiopeiæ.*
	59	47,0	*1	1	15,0	2	42,4	- -	..	....	21¼ N	β *Andromedæ.*
	30	21,2	1	32	41,0	34	54,5	- -	..	....	71 S	*Achernar.*
	43	2,0	*1	44	24,5	45	46,5	- -	..	....	15¼ N	α *Triang. Maj.*
	58	57,0	2	-	-	1	51,0	25,74	..	....	21¼ N	β *Triang. Maj.*
	Eastern end of the Axis 1',0 too high.											
18	59	52,4	*1	1	20,8	2	47,6	- -	..	....	21¼ N	β *Andromedæ.*
	52	54,8	*1	54	31,5	56	7,5	- -	..	....	28¼ N	γ *Andromedæ.*
	56	31,8	*2	58	8,0	59	40,5	- -	..	....	27¼ N	*Algol.*
	Eastern end of the Axis 0',8 too high,—lowered it. Lengthened the Pendulum 3 Divisions.											
19	46	17,5	17	47	37,5	48	55 5	- -	..	....	- - -	☉ 1 L.
	48	40,6	*17	50	0,3	*51	17,7	- -	..	....		☉ 2 L.

In the YEAR M.DCCCXIII.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	Names or Characters of the STARS AND PLANETS.
Dec. 19	Eastern end of the Axis 0',3 too high.											
	34	37,6	*0	35	54,5	37	10,5	-	-	. .	. . .	32½ S	β *Ceti.*
	42	48,0	*1	44	12,5	45	32,0	-	-	. .	. . .	15½ N	α *Triang. Maj.*
	52	35,0	*1	54	12,4	55	47,0	-	-	. .	. . .	28½ N	γ *Andromedæ.*
	56	12,0	*2	57	47,4	59	20,8	-	-	. .	. . .	27½ N	*Algol.*
	Eastern end of the Axis 0',09 too high. Lowered the Eastern end of the Axis. A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.											
20	50	44,0	17	52	4,5	53	22,5	-	-	. .	. . .	- - -	☉ 1 L.
	53	7,5	*17	54	27,5	-	-	-	-	. .	. . .		☉ 2 L.
	Eastern end of the Axis 0',25 too high.											
	34	38,9	*0	35	55,5	37	10,4	-	-	1	+0,15	32½ S	β *Ceti.*
	Eastern end of the Axis 0',25 too high.											
	IMMERSION of JUPITER's *first* Satellite. Time by Clock (S.) 8ʰ 12′ 45″. Mean Time 14ʰ 14′ 56″,75. Planet high and clear: Observation good.											
21	55	11,5	17	56	32,2	57	49,0	-	-	. .	. . .	- - -	☉ 1 L.
	57	34,6	17	-	-	*0	12,5	-	-	. .	. . .		☉ 2 L.
	59	34,5	*1	1	4,0	2	29,5	-	-	. .	. . .	21½ N	β *Andromedæ.*
	52	36,8	*1	54	14,7	55	49,6	-	-	2	+1,1	28½ N	γ *Andromedæ.*
	58	44,8	*2	0	13,8	1	38,7	-	-	. .	. . .	21½ N	β *Triang. Maj.*
	Western end of the Axis 0',1 too high.—The Axis may be considered level.											
22	59	39,4	18	1	0,0	2	17,3	11,31	. .	+ . . .	. . .	- - -	☉ 1 L.
	2	2,5	18	3	22,5	4	40,0						☉ 2 L.
	29	34,5	0	31	44,4	33	48,0	44,34	. .	. . .		42½ N	α *Cassiopeiæ.*
	34	39,2	0	35	57,0	37	11,9	56,81	2	0,45		32½ S	β *Ceti.*
	44	51,6	0	47	17,8	49	38,0	17,47	. .	. . .		40½ N	γ *Cassiopeiæ.*
	59	34,0	1	1	4,0	2	30,0	3,87	. .	. . .		21½ N	β *Andromedæ.*
	30	9,3	1	32	29,0	34	43,4	29,05	. .	. . .		71 S	*Achernar.*
	42	49,9	1	44	13,0	45	33,8	13,10	3	0,52		15½ N	α *Triang. Maj.*
	52	37,0	1	54	15,0	55	49,0	13,0	1	−0,2		28½ N	γ *Andromedæ.*
	58	44,4	2	0	13,5	1	39,0	13,47	1	0,05		21½ N	β *Triang. Maj.*
	56	14,0	2	57	50,0	59	23,3	50,32	3	+0,75		27½ N	*Algol.*
23	-	-	18	-	-	6	45,0	38,78	1	0,67		- - -	☉ 1 L.
	6	29,0	18	7	50,0	9	7,4						☉ 2 L.
	29	35,6	0	31	45,0	33	50,0	45,17	1	0,9		42½ N	α *Cassiopeiæ.*
	34	40,2	0	35	58,0	37	12,2	57,86	1	1,07		32½ S	β *Ceti.*
	44	52,4	0	47	18,4	49	38,5	18,35	1	0,8		40½ N	γ *Cassiopeiæ.*
	59	34,8	1	1	5,0	2	30,8	4,77	1	0,87		21½ N	β *Andromedæ.*
	30	10,0	1	32	30,0	34	44,0	29,86	1	0,77		71 S	*Achernar.*
	42	50,2	1	44	14,0	45	35,0	14,07	1	0,97		15½ N	α *Triang. Maj.*
	52	38,2	1	54	16,0	55	50,0	16,05	1	1,07		28½ N	γ *Andromedæ.*
	58	46,0	2	0	14,5	1	40,0	14,62	1	1,2		21½ N	β *Triang. Maj.*
	56	14,5	2	57	51,3	59	23,7	51,21	1	0,73		27½ N	*Algol.*

In the YEAR M.DCCCXIII.

DAY OF THE MONTH	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
Dec. 24	8	34,2	18	9	55,0	11	12,5	6,27	1	+0,69	. . .	⊙ 1 L.
	10	57,2	18	12	17,5	13	35,0					⊙ 2 L.
	29	36,3	0	31	45,5	35	50,6	45,74	1	0,6	42¼ N	*α Cassiopeiæ.*
	34	41,0	0	35	58,4	37	13,0	58,46	1	0,67	32¼ S	*β Ceti.*
	44	59,0	0	47	19,0	49	39,0	18,92	1	0,57	46¼ N	*γ Cassiopeiæ.*
	59	35,0	1	1	5,5	2	30,5	5,24	1	0,47	21¼ N	*β Andromedæ.*
	42	51,0	1	44	15,0	45	36,0	15,07	1	1,0	15¼ N	*α Triang. Maj.*
	52	38,6	1	54	16,5	55	51,0	16,65	1	0,63	28¼ N	*γ Andromedæ.*
	38	46,4	2	0	15,0	1	40,4	15,07	1	0,43	21¼ N	*β Triang. Maj.*
	56	15,0	2	57	52,0	59	24,0	51,75	1	0,5	27¼ N	*Algol.*
25	.	.	18	14	21,5	15	39,0	33,10	1	0,0	. . .	⊙ 1 L.
	15	24,0	18	16	45,0	.	.					⊙ 2 L.
26	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.											
27	21	56,4	18	23	17,0	24	34,0	27,85	1	+0,42	. . .	⊙ 1 L.
	24	18,5	18	25	39,0	26	56,0					⊙ 2 L.
	34	42,5	0	36	0,0	37	15,0	0,10	3	0,68	32¼ S	*β Ceti.*
	44	55,5	0	47	20,6	49	41,0	20,85	3	0,68	46¼ N	*γ Cassiopeiæ.*
	59	38,4	1	1	7,0	2	33,0	7,22	3	0,71	21¼ N	*β Andromedæ.*
28	26	23,0	18	27	44,0	29	0,5	54,54	1	0,39	. . .	⊙ 1 L.
	28	45,0	18	30	3,5	31	22,0					⊙ 2 L.
	39	39,5	1	1	8,0	2	34,0	8,24	1	1,03	21¼ N	*β Andromedæ.*
	44	52,0	1	46	9,4	47	25,0	9,39	. .	. . .	6¼ N	*β Arietis.*
	52	40,0	1	54	19,0	55	53,3	18,82	4	0,52	28¼ N	*γ Andromedæ.*
	57	10,0	1	38	29,6	59	46,0	29,50	. .	. . .	9¼ N	*α Arietis.*
	56	17,5	2	57	34,0	59	20,0	53,87	4	0,54	27¼ N	*Algol.*
29	30	50,0	18	32	10,5	33	28,5	. .	. .	. . .	. . .	⊙ 1 L.
	33	13,0	*18	34	33,4	.	.					⊙ 2 L.
	59	40,0	1	1	9,0	2	34,8	9,07	1	0,77	21¼ N	*β Andromedæ.*
	36	14,5	1	32	34,0	34	48,0	33,98	. .	. . .	71 S	*Achernar.*
	44	59,0	1	46	11,0	47	26,0	10,97	1	1,2	6¼ N	*β Arietis.*
	.	.	1	54	20,0	55	54,4	.	1	1,05	28¼ N	*γ Andromedæ.*
	57	11,0	1	38	31,0	59	47,2	30,78	1	1,2	9¼ N	*α Arietis.*
	56	19,0	2	57	55,0	59	27,3	55,07	1	1,27	27¼ N	*Algol.*
	IMMERSION *of* JUPITER'S *fourth* Satellite. Time by Clock (S.) 10ʰ 3′ 10″. Mean Time 15ʰ 29′ 30″,15. Planet high and clear: Observation satisfactory.											
30	35	18,0	18	36	38,5	37	55,5	. .	. .	. . .	. . .	⊙ 1 L.
	37	40,4	*18	39	8,5	*40	18,4					⊙ 2 L.
	53	53,4	21	53	9,3	56	22,0	. .	. .	. . .	27¼ S	♀ *Centrum.* 3ʰ 19′ 32″,21 mean Time.
	By the ⊙'s Transit, the Western end of the Axis appeared 0″,02 too high.											
31	.	.	18	41	6,5	42	23,0	17,38	. .	. . .	. . .	⊙ 1 L.
	42	8,5	18	43	28,4	44	44,5					⊙ 2 L.
	Wound up the Clock: Arc of Vibration 1° 28											

Observed TRANSITS

OF THE

FIXED STARS AND PLANETS

OVER THE

MERIDIAN.

In the YEAR M.DCCCXIV.

DAY OF THE MONTH.	I. Wire. M	S	Meridian. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
										+		
Jan. 1	44	12,0	18	45	32,6	46	50,0	43,81	1	1,28	- - -	☉ 1 L.
	46	35,0	18	47	55,2	49	12,0					☉ 2 L.
	1	34,3	22	2	50,0	4	2,6	49,96	..	...	26½ S	♀ *Centrum.* 3h 19′ 16″,09 mean Time.
	30	19,0	1	32	39,0	34	53,0	38,86	3	1,61	71 S	*Achernar.*
	44	58,4	1	46	17,0	47	31,0	16,79	3	1,82	6½ N	*β Arietis.*
	52	47,4	1	54	25,0	55	59,3	25,10	3	1,65	28½ N	*γ Andromedæ.*
	57	16,3	1	58	36,2	59	53,0	36,18	3	1,81	9½ N	*α Arietis.*
	18	40,4	2	19	58,0	21	18,8	57,68	..	...	5 S	☽ 1 L. 7h 35′ 41″,30 mean Time.
												Immersion of Jupiter's *second* Satellite.
												Time by Clock (S.) 6h 53′ 58″. Mean Time 12h 8′ 56″,42.
												Planet sufficiently high and clear, but Moonlight: Observation good.
										+		
2	48	39,0	18	49	59,2	51	15,5	10,10	1	1,29	- - -	☉ 1 L.
	51	1,0	18	52	21,5	53	38,3					☉ 2 L.
	Hazy.		22	6	36,4	7	49,2	36,03	..	...	26½ S	♀ *Centrum.* 3h 19′ 4″,65 mean Time.
	30	20,4	1	32	40,0	34	54,0	39,96	1	1,14	71 S	*Achernar.*
	44	59,2	1	46	17,8	47	32,2	17,46	1	0,94	6½ N	*β Arietis.*
	52	48,4	1	54	26,3	56	1,0	26,43	1	1,34	28½ N	*γ Andromedæ.*
	57	17,3	1	58	37,2	59	54,0	37,18	1	1,07	9½ N	*α Arietis.*
												Emersion of Jupiter's *third* Satellite.
												Time by Clock (S.) 7h 22′ 55″. Mean Time 12h 33′ 51″,66.
												Planet *sufficiently high*, and very clear: the ☽ opposite ♃: Observation good.
										+		
3	53	5,3	18	54	25,0	55	42,2	36,18	1	1,58	- - -	☉ 1 L.
	55	27,0	18	56	47,5	58	4,0					☉ 2 L.
												P. M. Examined the Line of Collimation and Meridian adjustment,—found both right.
										+		
	45	0,5	1	46	19,0	47	34,0	18,84	1	1,43	6½ N	*β Arietis.*
	52	49,3	1	54	27,0	56	2,0	27,25	1	0,87	28½ N	*γ Andromedæ.*
	57	19,0	1	58	38,0	59	54,5	38,13	1	1,0	9½ N	*α Arietis.*

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In the YEAR M.DCCCXIV.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	Names or Characters of the STARS AND PLANETS.
										+		
JAN. 4	57	30,0	18	58	49,8	0	6,5	0,73	1	0,45	. . .	☉ 1 L.
	59	51,4	19	1	11,6	2	29,6					☉ 2 L.
	30	22,0	1	32	42,0	34	56,0	41,86	2	0,93	71 S	*Achernar.*
	45	1,4	1	46	19,7	47	34,6	19,59	1	0,73	6½ N	*β Arietis.*
	52	49,8	1	54	28,0	56	2,5	28,00	1	0,67	28½ N	*γ Andromedæ.*
	57	19,5	1	58	38,4	59	55,0	38,58	1	0,47	9½ N	*α Arietis.*
	56	26,5	2	58	3,0	59	35,0	2,79	. .	. . .	27½ N	*Algol.*
5	1	54,0	19	3	14,5	4	31,0	25,01	1	0,58	. . .	☉ 1 L.
	4	16,0	19	5	35,5	6	52,0					☉ 2 L.
	30	22,3	1	32	42,0	34	56,0	41,86	1	0,1	71 S	*Achernar.*
	45	1,3	1	46	19,0	47	34,4	19,16	1	−0,33	6½ N	*β Arietis.*
	52	50,0	1	54	28,2	56	3,0	28,28	1	+0,3	28½ N	*γ Andromedæ.*
	57	19,0	1	58	39,0	59	56,0	38,83	1	0,07	9½ N	*α Arietis.*
	56	27,2	2	58	3,5	59	36,0	3,46	1	0,43	27½ N	*Algol.*
6	6	17,4	19	7	38,0	8	55,4	49,07	1	0,76	. . .	☉ 1 L.
	8	40,0	19	10	0,0	11	16,5					☉ 2 L.
	45	1,5	1	46	19,6	47	35,0	19,65	1	0,33	6½ N	*β Arietis.*
	52	50,4	1	54	29,0	56	3,0	28,78	1	−0,13	28½ N	*γ Andromedæ.*
	57	20,0	1	58	39,4	59	56,0	39,45	1	+0,17	9½ N	*α Arietis.*
	56	27,0	2	58	3,8	59	36,0	3,56	1	0,03	27½ N	*Algol.*
	11	10,8	3	13	3,0	14	51,5	3,14	. .	. . .	36 N	*ε Persei.*
	-	-	3	31	40,4	33	25,0	40,1	. .	. . .	34½ N	*δ Persei.*
7	10	41,4	19	12	1,2	13	18,3	12,11	1	0,24	. . .	☉ 1 L.
	13	3,0	19	14	23,0	15	40,0					☉ 2 L.
	30	23,4	1	32	43,0	34	57,0	42,96	2	0,52	71 S	*Achernar.*
	45	2,0	1	46	20,0	47	35,5	20,11	1	0,47	6½ N	*β Arietis.*
	52	51,0	1	54	29,0	56	3,0	28,93	1	0,20	28½ N	*γ Andromedæ.*
	57	20,0	1	58	40,2	59	56,0	39,51	1	0,27	9½ N	*α Arietis.*
	11	11,0	3	13	4,0	14	52,2	3,86	1	0,63	36 N	*ε Persei.*
	29	55,0	3	31	41,4	33	25,0	41,72	1	0,50	34½ N	*δ Persei.*
8	15	4,4	19	16	24,0	17	41,0	34,78	1	0,37	. . .	☉ 1 L.
	17	25,5	19	18	46,0	20	2,0					☉ 2 L.
	30	24,0	1	32	43,3	34	57,2	43,31	1	0,37	71 S	*Achernar.*
	45	2,4	1	46	20,5	47	36,0	20,59	1	0,43	6½ N	*β Arietis.*
	52	51,2	1	54	29,4	56	3,5	29,81	1	0,37	28½ N	*γ Andromedæ.*
	57	20,0	1	58	40,5	59	56,2	39,95	1	0,1	9½ N	*α Arietis.*
	56	27,7	2	58	4,0	59	37,0	4,09	2	0,63	27½ N	*Algol.*
9	19	26,0	19	20	46,0	22	3,0	56,71	1	0,13	. . .	☉ 1 L.
	21	47,5	19	23	8,0	24	24,0					☉ 2 L.
	45	3,0	1	46	21,0	47	36,2	21,04	1	0,43	6½ N	*β Arietis.*
	52	51,0	1	54	29,3	56	4,0	29,33	1	0,07	28½ N	*γ Andromedæ.*
	57	20,5	1	58	40,0	59	57,0	40,13	1	0,33	9½ N	*α Arietis.*
	56	28,4	2	58	5,0	59	37,0	4,76	1	0,57	27½ N	*Algol.*
	EMERSION of JUPITER'S *third* Satellite.											
	Time by Clock (S.) 11h 49′ 1″. Mean Time 16h 31′ 29″,80.											
	Planet almost in the Zenith: ☽ near: Very clear Atmosphere: Observation good.											
	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.											
										+		
10	23	49,0	19	25	8,0	26	24,8	18,93	1	0,92	. . .	☉ 1 L.
	26	10,0	19	27	29,5	28	46,5					☉ 2 L.
	52	51,4	1	54	30,0	56	4,5	29,95	1	0,53	28½ N	*γ Andromedæ.*
	57	20,6	1	58	41,0	59	57,5	40,78	1	0,53	9½ N	*α Arietis.*
	56	28,5	2	58	5,0	59	37,0	4,79	1	0,03	27½ N	*Algol.*
	11	12,0	3	13	5,0	14	53,0	4,81	3	0,31	36 N	*ε Persei.*
	29	56,0	3	31	43,0	33	27,0	43,27	3	0,51	34½ N	*δ Persei.*
11	28	10,0	19	29	30,0	30	46,0	40,1	1	0,53	. . .	☉ 1 L.
	30	31,0	19	31	50,6	33	7,0					☉ 2 L.

In the YEAR M.DCCCXIV.

DAY OF THE MONTH.		I. Wire.		MERIDIAN.			III. Wire.		Reduction of Wires.	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
		M	S	H	M	S	M	S	S		+		
JAN.	11	52	52,0	1	54	30,0	56	5,0	30,18	1	0,37	28½ N	*γ Andromedæ.*
		57	21,7	1	58	41,0	59	58,0	41,18	1	0,53	9½ N	*α Arietis.*
		11	12,6	3	13	5,5	14	53,5	5,34	1	0,53	36 N	*α Persei.*
		29	55,5	3	31	43,2	33	27,3	43,32	1	0,0	34½ N	*β Persei.*
	12	32	31,0	19	33	50,0	35	7,0					
		34	51,5	19	36	11,0	37	28,0	0,91	1	0,61	. . .	⊙ 1 L.
		52	52,5	1	54	30,4	56	5,0	30,50	1	0,3	28½ N	⊙ 2 L.
		57	22,0	1	58	41,6	59	58,0	41,55	1	0,3	9½ N	*γ Andromedæ.*
		56	29,4	2	58	6,0	59	38,5	5,89	1	0,3	27½ N	*α Arietis.*
		11	13,2	3	13	6,0	14	53,7	5,79	1	0,43	36 N	*Algol.*
													α Persei.

IMMERSION of JUPITER'S *first* Satellite.
Time by Clock (S.) 9h 51′ 40″. Mean Time 14h 22′ 48″,67.
Planet near the Zenith, but hazy: Observation otherwise good.

	13	36	51,5	19	38	11,0	39	27,0			+		
		-	-	19	40	31,5	41	48,0	21,25	1	0,84	. . .	⊙ 1 L.
		52	52,6	1	54	31,0	56	6,0	31,08	1	0,57	28½ N	⊙ 2 L.
		57	23,0	1	58	42,0	59	59,0	42,25	1	0,8	9½ N	*γ Andromedæ.*
		56	30,0	2	58	6,6	59	39,0	6,46	1	0,57	27½ N	*α Arietis.*
		11	14,2	3	13	6,5	14	54,5	6,49	1	0,77	36 N	*Algol.*
		29	56,4	3	31	44,0	33	28,0	44,12	2	0,8	34½ N	*α Persei.*
	14	41	11,5	19	42	31,4	43	47,5					*β Persei.*
		43	32,4	19	44	51,0	46	7,5	41,21	1	0,86	. . .	⊙ 1 L.
		57	23,4	1	58	42,6	59	59,5	42,78	1	0,5	9½ N	⊙ 2 L.
													α Arietis.
	15	45	32,0	19	46	50,2	48	6,5					
		47	51,5	19	49	10,5	50	26,5	0,53	1	1,12	. . .	⊙ 1 L.
													⊙ 2 L.

Wound up the Clock: Arc of Vibration 1°: 38′.

										+		
56	32,0	2	58	8,0	59	41,0	8,16	2	0,9	27½ N	*Algol.*
11	16,0	3	13	8,0	14	56,4	8.16	2	0,8	36 N	*α Persei.*
29	58,2	3	31	46,0	33	30,0	46,07	2	0,96	34½ N	*β Persei.*
43	4,0	3	44	30,0	45	53,0	30,09	. .	. . .	18½ N	*ζ Persei.*
26	1,0	4	27	18,0	28	31,7	18,07	. .	. . .	3½ N	*Aldebaran.*

IMMERSION of JUPITER'S *fourth* Satellite.
Time by Clock (S.) 5h 4′ 28″,5. Mean Time 9h 24′ 33″,85.
Planet near the horizon: hazy: Observation otherwise good.

IMMERSION of JUPITER'S *second* Satellite.
Time by Clock (S.) 12h 58′ 21″. Mean Time 17h 17′ 8″,42.
Planet high and very clear: Observation good.

	16	49	49,4	19	51	8,2	52	24,5			+		
		52	9,5	19	53	29,0	54	45,0	18,59	1	0,36	. . .	⊙ 1 L.
		56	32,0	2	58	8,5	59	41,2	8,46	1	0,23	27½ N	⊙ 2 L.
		29	58,0	3	31	46,0	33	30,0	46,0	1	0,07	34½ N	*Algol.*
													β Persei.

IMMERSION of JUPITER'S *third* Satellite.
Time by Clock (S.) 12h 47′ 50″. Mean Time 17h 2′ 43″,38.
Planet high, but hazy: Observation otherwise good.

A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.

In the YEAR M.DCCCXIV.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names* or *Characters* of the STARS AND PLANETS.
JAN. 17	54	10,0	19	55	26,0	56	43,4					
	56	29,0	19	57	48,0	59	4,5	38,46	..	. . .	- - -	⊙ 1 L.
	56	32,0	2	58	8,5	59	41,0					⊙ 2 L.
	11	16,4	3	13	8,5	14	57,0	8,41	1	—0,07	27¼ N	*Algol.*
	29	58,2	3	31	46,3	33	30,0	8,66	1	+0,2	36 N	*α Persei.*
	43	4,0	3	44	30,5	45	52,8	46.22	1	0,17	34½ N	*δ Persei.*
	26	1,2	4	27	18,3	28	31,5	30,25	2	0,05	18¾ N	*ζ Persei.*
								18,05	2	0,05	3¼ N	*Aldebaran.*
18	58	23,0	19	59	42,0	0	58,0					
	0	43,0	20	2	2,4	3	17,5	51,98	..	. . .	- - -	⊙ 1 L.
	56	32,3	2	58	8,5	59	41,0					⊙ 2 L.
	29	58,2	3	31	47,0	33	30,2	8,49	1	0,1	27¼ N	*Algol.*
	26	1,5	4	27	19,0	28	32,0	46,62	1	0,3	34½ N	*δ Persei.*
								18,80	1	0,5	3¼ N	*Aldebaran.*
19	2	39,2	20	3	57,0	5	13,8					
	4	58,4	20	6	17,0	7	33,0	7,59	1	0,1	- - -	⊙ 1 L.
	56	32,0	2	58	8,3	59	41,0					⊙ 2 L.
	11	16,2	3	13	8,5	14	57,0	8,31	1	—0,17	27¼ N	*Algol.*
	29	57,5	3	31	46,0	33	30,2	8,61	2	0,07	36 N	*α Persei.*
								45,95	1	0,57	34½ N	*δ Persei.*

IMMERSION of JUPITER's *first* Satellite.
Time by Clock (S.) 12h 13′ 20″,5. Mean Time 16h 16′ 32″,25.
Planet near the Zenith: Clear: Observation good.

										+		
20	6	54,0	20	8	12,4	9	28,5	22,28	1	0,21	- - -	⊙ 1 L.
	9	13,3	20	10	32,0	11	47,5					⊙ 2 L.
	56	32,0	2	58	8,0	59	40,4	8,01	1	—0,3	27¼ N	*Algol.*
	11	15,0	3	13	7,8	14	56,0	7,71	1	0,97	36 N	*α Persei.*
	29	57,0	3	31	46,0	33	29,5	45,62	1	0,4	34½ N	*δ Persei.*
	43	3,0	3	44	29,0	45	52,0	29,06	2	0,07	18¼ N	*ζ Persei.*
	26	0,5	4	27	17,5	28	30,0	17,10	2	0,75	3¼ N	*Aldebaran.*
21	11	8,0	20	12	27,3	13	42,2					
	13	28,0	20	14	45,5	16	1,0	36,32	1	+0,04	- - -	⊙ 1 L.
	56	31,5	2	58	8,0	59	40,2					⊙ 2 L.
	11	15,0	3	13	7,5	14	56,0	8,01	1	—0,23	27¼ N	*Algol.*
	29	57,0	3	31	45,2	33	29,0	7,56	1	0,1	36 N	*α Persei.*
	43	3,0	3	44	29,3	-	-	45,12	1	0,43	34½ N	*δ Persei.*
	45	51,2	3	47	25,8	48	57,0	29,15	1	+0,30	18¼ N	*ζ Persei.*
								25,86	1	—0,35	26¼ N	*ε Persei.*

IMMERSION of JUPITER's *first* Satellite.
Time by Clock (S.) 6h 48′ 55″. Mean Time 10h 45′ 8″,77.
Planet sufficiently high: flying Clouds: the Observation good notwithstanding.

										+		
22	15	22,3	20	16	40,0	17	55,5	49,70	1	0,08	- - -	⊙ 1 L.
	17	41,0	20	18	59,0	20	14,5					⊙ 2 L.
	11	15,0	3	13	7,5	14	56,0	7,56	1	—0,0	36 N	*α Persei.*
	29	57,0	3	31	45,0	33	29,0	45,02	1	0,07	34½ N	*δ Persei.*
	43	3,0	3	44	29,3	-	-	29,18	1	0,0	18¼ N	*ζ Persei.*
	26	0,0	4	27	17,0	28	30,3	16,80	1	0,03	3¼ N	*Aldebaran.*
23	19	34,5	20	20	53,2	22	8,4					
	21	53,4	20	23	12,0	24	27,0	2,40	1	+0,2	- - -	⊙ 1 L.
	56	31,0	2	58	7,5	59	40,0					⊙ 2 L.
	11	14,8	3	13	7,2	14	55,5	7,41	1	—0,17	27¼ N	*Algol.*
	29	57,0	3	31	45,0	33	29,0	7,25	1	0,33	36 N	*α Persei.*
	43	3,0	3	44	29,3	45	51,0	45,02	1	0,0	34½ N	*δ Persei.*
	26	0,5	4	27	17,0	28	30,0	28,96	1	0,0	18¼ N	*ζ Persei.*
								16,85	1	+0,07	3¼ N	*Aldebaran.*
24	-	-	20	-	-	-	-	14,1	1	0,0	- - -	⊙ 1 L.
	26	5,0	20	27	23,0	28	38,5					⊙ 2 L.
	56	31,0	2	58	7,0	59	39,4	7,01	1	—0,37	27¼ N	*Algol.*

In the YEAR M.DCCCXIV.

DAY of the MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days.	Rate of Clock.	Zenith Distance.		*Names or Characters of the* STARS AND PLANETS.
JAN. 24	11	14,5	3	13	7,0	14	55,5	7,06	1	0,17	36	N	*α Persei.*
	29	56,5	3	31	45,0	33	29,0	44,90	1	0,17	34½	N	*δ Persei.*
	43	2,8	3	44	28,8	-	-	28,83	1	0,35	18½	N	*ζ Persei.*
	45	50,0	3	47	25,0	48	57,0	25,16	1	0,15	26½	N	*ε Persei.*
	26	0,0	4	27	16,6	28	30,0	16,52	1	0,3	3½	N	*Aldebaran.*
25	-	-	20	-	-	-	-						☉ 1 L.
	-	-	20	31	31,0	32	49,0						☉ 2 L.
	56	30,2	2	58	7,3	59	40,0	7,11	1	+0,03	27½	N	*Algol.*
	11	14,0	3	13	6,8	14	55,0	6,71	1	−0,4	36	N	*α Persei.*
	29	56,4	3	31	44,8	33	29,0	44,77	1	0,1	34½	N	*δ Persei.*
	43	3,0	3	44	29,0	45	30,8	28,76	1	+0,2	18½	N	*ζ Persei.*
	26	0,0	4	27	16,5	28	30,0	16,47	1	−0,03	3½	N	*Aldebaran.*
	3	14,0	5	4	59,0	6	40,3	59,05	..	...	32½	N	*Capella.*
	-	-	5	7	37,0	8	49,2	57,16	..	...	21½	S	*β Orionis.*
26	56	31,0	2	58	7,6	59	40,0	7,46	1	+0,33	27½	N	*Algol.*
	11	14,4	3	13	7,0	14	55,0	6,91	1	0,20	36	N	*α Persei.*
	29	56,7	3	31	45,0	33	29,0	44,95	1	0,17	34½	N	*δ Persei.*
	43	3,0	3	44	29,4	-	-	29,23	1	0,2	18½	N	*ζ Persei.*
	45	50,0	3	47	25,0	48	56,7	25,09	1	−0,15	26½	N	*ε Persei.*
	50	6,0	3	51	22,0	52	35,2	22,02	..	...	27½	S	*γ Eridani.*
	26	0,0	4	27	16,0	28	30,0	16,22	1	0,17	3½	N	*Aldebaran.*
	3	14,0	5	4	59,0	6	41,0	59,22	1	+0,23	32½	N	*Capella.*
	15	10,0	5	16	33,5	17	54,0	33,54	1	0,33	15½	N	*β Tauri.*

IMMERSION of JUPITER's *second* Satellite.
Time by Clock (S.) 5h 33′ 20″,5. Mean Time 9h 10′ 7″,44.
Planet low, but clear: Observation good.

										+			
27	36	18,5	20	37	36,4	38	51,0	45,0	3	1,0	-	- -	☉ 1 L.
	38	36,5	20	39	51,5	41	9,0						☉ 2 L.
	11	14,5	3	13	7,7	14	55,5	7,41	1	0,43	36	N	*α Persei.*
	29	57,0	3	31	45,0	33	29,0	45,02	1	0,10	34½	N	*δ Persei.*
	43	3,3	3	44	30,0	45	32,0	30,64	1	0,45	18½	N	*ζ Persei.*
	50	6,3	3	51	22,2	52	35,5	22,27	1	0,23	27½	S	*γ Eridani.*
	26	0,6	4	27	16,5	28	30,6	16,77	1	0,57	3½	N	*Aldebaran.*
	3	14,7	5	4	59,8	6	41,5	59,92	1	0,67	32½	N	*Capella.*
	15	10,8	5	16	34,3	17	54,8	34,34	1	0,80	15½	N	*β Tauri.*
28	-	-	20	-	-	43	0,5						☉ 1 L.
	42	45,0	20	44	3,0	45	17,4	54,10	1	0,17	-	- -	☉ 2 L.
	11	15,0	3	13	8,0	14	55,8	7,76	1	0,37	36	N	*α Persei.*
	29	57,2	3	31	45,3	33	29,5	45,35	1	0,33	34½	N	*δ Persei.*
	43	3,4	3	44	30,0	-	-	29,73	1	0,05	18½	N	*ζ Persei.*
	45	50,5	3	47	26,0	48	57,0	25,78	1	0,40	26½	N	*ε Persei.*
	50	7,2	3	51	22,3	52	35,4	22,52	1	0,27	27½	S	*γ Eridani.*
	26	0,5	4	27	17,0	28	30,2	16,90	1	0,33	3½	N	*Aldebaran.*

IMMERSION of JUPITER's *first* Satellite.
Time by Clock (S.) 9h 10′ 17″,5. Mean Time 12h 38′ 36″,0
Planet high: flying Clouds: Observation good.

										+			
29	44	35,0	20	45	53,0	47	8,0	1,61	1	0,1	-	- -	☉ 1 L.
	46	52,5	20	48	10,3	49	25,0						☉ 2 L.
	54	47,4	2	56	4,0	57	17,5	3,99	..	...	2	S	☽ 1 L. 6h 21′ 28″,29 mean Time.
	26	0,8	4	27	17,4	28	30,6	17,17	1	0,33	3½	N	*Aldebaran.*
	3	14,4	5	5	0,0	-	-	59,93	2	−0,02	32½	N	*Capella.*
	6	24,2	5	7	38,0	8	49,8	38,20	2	0,0	21½	S	*β Orionis.*
	15	10,3	5	16	34,0	17	55,0	34,11	2	0,37	15½	N	*β Tauri.*

In the YEAR M.DCCCXIV.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days.	Rate of Clock.	Zenith Distance.	*Names* or *Characters* of the STARS AND PLANETS.
JAN. 30	48	42,5	20	50	0,3	51	15,3	8,30	1	+ 0,1	. . .	⊙ 1 L.
	51	0,0	20	52	17,0	53	32,0					⊙ 2 L.
	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.											
31	52	48,4	20	54	6,0	55	20,2	14,38	1	+ 0,18	. . .	⊙ 1 L.
	55	5,4	20	56	23,0	.	.					⊙ 2 L.
	Wound up the Clock: Arc of Vibration 1° 39′.											
	29	56,6	3	31	43,0	33	29,7	45,10	3	— 0,08	34¼ N	δ *Persei.*
	43	3,0	3	44	29,0	45	32,0	29,06	3	0,23	18¼ N	ζ *Persei.*
	.	.	3	47	25,0	48	57,0	24,70	3	0,17	26½ N	ε *Persei.*
	50	6,0	3	51	22,2	52	35,1	22,66	3	0,16	27½ S	γ *Eridani.*
	26	0,5	4	27	16,5	28	30,0	16,60	3	0,08	3½ N	*Aldebaran.*
	53	44,5	4	55	4,0	56	20,2	3,95	.	. . .	5¼ N	☽ 1 L. 8ʰ 42′ 17″,05 mean Time.
	3	14,0	5	4	59,4	6	40,5	59,30	2	0,25	32¾ N	*Capella.*
	15	10,0	5	16	33,4	17	54,2	33,54	2	0,28	15½ N	β *Tauri.*
FEB. 1	.	.	3	47	25,0	48	56,5	25,17	1	0,25	26¼ N	ε *Persei.*
	50	6,0	3	51	22,4	52	35,0	22,2	1	+0,05	27¼ S	γ *Eridani.*
	26	0,0	4	27	16,0	28	29,8	16,17	1	—0,4	3½ N	*Aldebaran.*
	3	13,8	5	4	59,0	6	41,0	59,24	1	0,03	32½ N	*Capella.*
	15	10,0	5	16	34,2	17	54,0	33,89	1	+0,2	15¼ N	β *Tauri.*
2	0	58,0	21	2	15,0	3	29,5	23,56	. .	. . .	. . .	⊙ 1 L.
	3	14,5	21	4	32,3	5	46,0					⊙ 2 L.
	29	56,0	3	31	44,0	33	28,8	44,22	2	—0,42	34¼ N	δ *Persei.*
	45	50,0	3	47	25,0	48	56,0	24,93	1	0,25	26¼ N	ε *Persei.*
	50	6,0	3	51	22,0	52	34,5	21,87	1	0,3	27½ S	γ *Eridani.*
	25	59,5	4	27	16,0	28	29,5	15,97	1	0,4	3¼ N	*Aldebaran.*
	IMMERSION of JUPITER's *second* Satellite. Time by Clock (S.) 8ʰ 36′ 52″,5. Mean Time 11ʰ 45′ 37″,82. Planet high and clear: ☽ up and bright: Observation good.											
3	5	2,0	21	6	19,0	7	33,3	27,10	1	+ 0,24	. . .	⊙ 1 L.
	7	18,4	21	8	35,4	9	49,0					⊙ 2 L.
	.	.	3	47	25,0	48	56,0	24,92	1	0,0	26¼ N	ε *Persei.*
	50	6,4	3	51	22,0	52	35,0	22,10	1	0,3	27½ S	γ *Eridani.*
	25	59,0	4	27	15,8	28	29,8	15,70	1	—0,3	3¼ N	*Aldebaran.*
	3	14,0	5	4	59,0	.	.	59,23	2	+0,05	32½ N	*Capella.*
4	9	5,0	21	10	22,0	11	36,4	30,11	1	0,51	. . .	⊙ 1 L.
	11	21,0	21	12	38,2	13	52,0					⊙ 2 L.
	43	3,0	3	44	29,0	45	51,5	28,94	1	0,0	18¼ N	ζ *Persei.*
	.	.	3	47	25,2	48	56,2	25,04	1	0,2	26¼ N	ε *Persei.*
	50	6,0	3	51	22,0	52	35,0	22,0	1	—0,13	27½ N	γ *Eridani.*
	IMMERSION of JUPITER's *first* Satellite. Time by Clock (S.) 11ʰ 31′ 25″. Mean Time 14ʰ 31′ 59″,37. Planet near the Zenith: ☽ full and near ♈: Clear: Observation good.											
5	13	7,0	21	14	25,0	15	38,5	32,17	1	+ 0,36	. . .	⊙ 1 L.
	15	23,5	21	16	40,0	17	54,0					⊙ 2 L.
	45	50,3	3	47	25,5	48	57,0	25,52	3	0,2	26¼ N	ε *Persei.*
	50	6,5	3	51	22,4	52	35,2	22,37	1	0,37	27½ N	γ *Eridani.*
	25	59,6	4	27	16,6	28	30,0	16,42	2	0,70	3¼ N	*Aldebaran.*

In the YEAR M.DCCCXIV.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
FEB. 5	3	14,0	5	4	59,5	6	41,2	59,59	2	+0,12	32¼ N	*Capella.*
	-	-	5	7	38,0	8	49,5	38,11	4	0,23	21½ S	*β Orionis.*
	15	10,2	5	16	34,0	17	55,0	34,09	4	0,08	15¼ N	*β Tauri.*
6	17	9,0	21	18	25,4	19	39,0					
	19	21,4	21	20	41,2	21	55,0	33,34	1	0,37	- - -	☉ 1 *L.*
	43	3,0	3	44	29,2	45	51,3	29,04	2	0,03	18½ N	☉ 2 *L.*
	50	6,5	3	51	22,2	52	35,0	22,17	1	−0,2	27½ S	*ζ Persei.*
	26	0,0	4	27	16,5	28	30,0	16,47	1	+0,1	3¼ N	*γ Eridani.*
	3	14,0	5	4	59,2	-	-	59,33	1	−0,15	32½ N	*Aldebaran.*
	6	23,0	5	7	38,0	8	49,3	37,77	1	0,10	21½ S	*Capella.*
	15	10,4	5	16	34,0	17	54,8	34,09	1	0,0	15¼ N	*β Orionis.*
												β Tauri.

IMMERSION of JUPITER'S *first* Satellite.
Time by Clock (S.) 6h 6′ 45″. Mean Time 9h 0′ 10″,68.
Planet low, but clear: Moonlight: Observation good.

A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.

7	21	9,0	21	22	25,2	23	39,0			—		
	23	24,0	21	24	40,5	25	54,0	32,96	1	0,48	- - -	☉ 1 *L.*
	45	50,0	3	47	25,0	48	56,6	25,09	1	0,2	26½ N	☉ 2 *L.*
	-	-	3	51	22,0	52	35,2	22,25	1	0,0	27¼ S	*ε Persei.*
	25	59,8	4	27	17,0	28	30,0	16,67	1	+0,10	3¼ N	*γ Eridani.*
	3	14,0	5	4	59,3	6	40,4	59,29	1	0,1	32¼ N	*Aldebaran.*
	-	-	5	7	38,4	8	49,4	38,51	1	0,25	21¼ S	*Capella.*
												β Orionis.
8	25	8,0	21	26	24,8	-	-	32,4	1	0,19	- - -	☉ 1 *L.*
	-	-	21	28	40,0	-	-					☉ 2 *L.*
	50	6,0	3	51	21,8	52	34,7	21,82	1	−0,23	27¼ S	*γ Eridani.*
	26	0,0	4	27	16,8	28	29,6	16,52	1	0,13	3¼ N	*Aldebaran.*
	3	13,8	5	4	59,0	-	-	59,13	1	0,25	32¼ N	*Capella.*
	6	22,0	5	7	37,7	8	48,5	37,16	1	0,8	21¼ S	*β Orionis.*
	-	-	5	16	33,0	17	53,5	33,15	2	0,57	15¼ N	*β Tauri.*
9	29	7,0	21	30	23,4	31	37,0	30,82	1	+0,02	- - -	☉ 1 *L.*
	31	21,5	21	32	38,5	33	51,5					☉ 2 *L.*
	3	13,0	5	-	-	6	40,0	58,63	..	...	32¼ N	*Capella.*
	-	-	5	7	36,4	8	48,2	36,66	..	...	21¼ S	*β Orionis.*
10	33	5,0	21	34	21,4	35	34,8	28,54	1	−0,08	- - -	☉ 1 *L.*
	35	20,0	21	36	36,0	37	48,0					☉ 2 *L.*
	3	13,0	5	4	58,4	6	40,0	58,49	2	0,1	32¼ N	*Capella.*
	-	-	5	24	31,0	25	40,0	30,96	..	...	13½ S	*δ Orionis.*
	27	33,5	5	28	47,0	29	58,0	47,10	..	...	14¼ S	*ε Orionis.*
	32	9,8	5	-	-	34	34,0	21,90	..	...	15½ S	*ζ Orionis.*
	39	42,0	5	40	57,0	42	8,0	56,74	..	...	23 S	*κ Orionis.*
	45	52,8	5	47	7,0	48	18,0	6,93	..	...	6 S	*α Orionis.*
11	37	2,5	21	38	18,4	39	31,5	25,70	1	+0,26	- - -	☉ 1 *L.*
	39	17,0	21	40	32,8	41	46,0					☉ 2 *L.*
	25	59,8	4	27	16,0	28	29,4	16,02	3	−0,13	3¼ N	*Aldebaran.*
	3	13,0	5	4	59,0	-	-	58,75	1	+0,3	32¼ N	*Capella.*
	6	22,0	5	7	36,0	8	48,4	36,30	1	0,2	21¼ S	*β Orionis.*
	23	17,5	5	24	31,0	-	-	31,13	1	0,0	13½ S	*δ Orionis.*
	27	34,0	5	28	47,2	29	58,0	47,33	1	0,23	14½ S	*ε Orionis.*
12	-	-	4	27	16,0	28	29,3	15,91	1	−0,05	3¼ N	*Aldebaran.*
	3	13,0	5	4	59,0	6	40,0	58,79	1	0,0	32¼ N	*Capella.*
	-	-	5	7	36,5	8	48,2	36,71	1	+0,15	21½ S	*β Orionis.*
	-	-	5	16	33,3	17	53,0	33,10	4	−0,02	15¼ N	*β Tauri.*
	23	17,4	5	24	31,0	25	40,0	30,96	1	0,05	13½ S	*δ Orionis.*
	27	34,0	5	28	47,0	29	58,2	47,28	1	0,0	14½ S	*ε Orionis.*
	32	10,0	5	33	23,2	34	34,0	23,41	1	+0,07	15½ S	*ζ Orionis.*

In the YEAR M.DCCCXIV.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.		*Names or Characters of the* STARS AND PLANETS.
FEB. 12	39	42,0	5	40	57,0	42	8,5	56,86	2	+ 0,08	23	S	*κ Orionis.*
	45	53,0	5	47	7,0	-	-	7,06	2	0,05	6	S	*α Orionis.*
13	44	55,0	21	46	10,0	47	23,5	18,18	2	0,42	-	- -	☉ 1 L.
	47	8,5	21	48	24,4	49	38,0						☉ 2 L.
	25	59,7	4	27	16,0	28	29,8	16,10	1	0,25	3½	N	*Aldebaran.*
	3	13,3	5	4	58,7	-	-	58,75	1	0,0	32½	N	*Capella.*
	6	22,6	5	7	37,0	8	48,2	36,90	1	0,25	21½	S	*β Orionis.*
	-	-	5	16	33,0	17	53,0	32,90	1	−0,15	15½	N	*β Tauri.*
	23	18,0	5	24	31,0	-	-	31,26	1	+ 0,3	13½	S	*δ Orionis.*

IMMERSION of JUPITER's *first* Satellite.
Time by Clock (S.) 8h 28′ 35″. Mean Time 10h 51′ 6″,43.
Planet high and clear: Observation good.

A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.

14	48	59,0	21	50	6,0	51	19,0			+			
	51	4,5	21	52	20,0	53	33,4	13,15	1	0,27	-	- -	☉ 1 L.
	26	0,0	4	27	16,0	28	30,0	16,22	1	0,17	3½	N	☉ 2 L.
	3	13,4	5	4	59,0	6	40,0	58,89	1	0,13	32½	N	*Aldebaran.*
	-	-	5	7	37,0	8	49,0	57,0	1	0,4	21½	S	*Capella.*
	15	10,2	5	16	33,4	17	53,6	33,44	1	0,5	15½	N	*β Orionis.*
	23	18,0	5	24	31,0	25	42,0	31,23	1	0,0	13½	S	*β Tauri.*
	27	34,0	5	28	48,0	29	58,8	47,93	2	0,29	14½	S	*δ Orionis.*
	32	10,2	5	33	24,0	34	34,3	23,85	2	0,22	15½	S	*ε Orionis.*
	39	43,0	5	40	58,0	42	9,0	57,74	2	0,42	23	S	*ζ Orionis.*
	45	53,5	5	47	8,0	48	19,0	7,86	2	0,38	6	S	*κ Orionis.*
													α Orionis.

IMMERSION of JUPITER's *third* Satellite.
Time by Clock (S.) 6h 33′ 12″,3. Mean Time 8h 55′ 0″,68.
Planet sufficiently high and clear: Observation good.

15	52	45,0	21	54	0,0	55	14,0			+			
	54	58,5	21	56	14,0	57	27,0	7,41	1	0,26	-	- -	☉ 1 L.
	3	14,0	5	4	59,3	-	-	59,40	1	0,45	32½	N	☉ 2 L.
	6	23,0	5	7	37,0	8	49,0	37,20	1	0,0	21½	S	*Capella.*
	-	-	5	17	11,0	18	22,0	11,04	..	...	7½	S	*β Orionis.*
	23	18,0	5	24	31,5	25	42,0	31,48	1	0,17	13½	S	*γ Orionis.*
	27	34,5	5	28	48,8	29	59,0	48,50	1	0,23	14½	S	*δ Orionis.*
	32	10,2	5	33	24,0	34	34,4	23,88	1	0,03	15½	S	*ε Orionis.*
	39	43,0	5	40	58,0	42	9,0	57,74	1	0,0	23	S	*ζ Orionis.*
	45	54,0	5	47	8,0	48	19,0	7,98	1	0,17	6	S	*κ Orionis.*
													α Orionis.
16	56	38,4	21	57	54,4	59	7,0						
	58	52,0	21	0	7,0	1	20,0	0,80	1	0,19	-	- -	☉ 1 L.
													☉ 2 L.

Wound up the Clock: Arc of Vibration 1°: 32′.

	-	-	5	7	37,0	8	49,0	- -	1	+0,0	21½	S	*β Orionis.*
	15	57,0	5	17	10,2	18	22,0	10,58	1	−0,4	7½	S	*γ Orionis.*
	23	18,0	5	24	31,0	25	42,0	31,28	1	0,17	13½	S	*δ Orionis.*
	27	34,0	5	28	48,0	29	59,0	47,98	1	0,43	14½	S	*ε Orionis.*
	32	10,0	5	33	24,0	34	34,3	23,80	1	0,1	15½	S	*ζ Orionis.*
	39	43,0	5	40	57,6	42	9,0	57,54	1	0,13	23	S	*κ Orionis.*
	45	53,7	5	47	8,0	48	19,0	7,91	1	0,1	6	S	*α Orionis.*

IMMERSION of JUPITER's *second* Satellite.
Time by Clock (S.) 14h 47′ 23″. Mean Time 16h 56′ 5″,11.
Planet sufficiently high and clear: Observation good.

In the YEAR M.DCCCXIV.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	II. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
										+		
FEB. 17	0	31,0	22	1	47,0	3	0,0	53,48	1	0,08	- - -	⊙ 1 L.
	2	44,5	22	4	0,0	5	12,4					⊙ 2 L.
	3	14,0	5	4	59,7	6	40,0	50,39	1	−0,1	32½ N	*Capella.*
	15	57,0	5	17	10,0	18	22,0	9,98	1	0,07	7½ S	*γ Orionis.*
	23	18,4	5	24	31,2	25	42,0	31,48	1	+0,2	15½ S	*δ Orionis.*
	27	34,0	5	28	48,0	29	59,0	47,78	1	0,0	14½ S	*ε Orionis.*
	-	-	5	33	24,0	34	34,5	24,0	1	0,1	15½ S	*ζ Orionis.*
	45	53,0	5	47	8,0	48	19,0	7,73	1	−0,23	6 S	*α Orionis.*
18	4	23,5	22	5	39,0	6	52,0	45,55	1	+0,27	- - -	⊙ 1 L.
	6	36,3	22	7	52,0	9	4,5					⊙ 2 L.
	3	14,0	5	4	59,7	-	-	59,60	1	0,0	32½ N	*Capella.*
	6	23,0	5	7	37,0	8	49,0	37,20	2	0,0	21½ S	*β Orionis.*
	15	57,2	5	17	10,5	18	22,0	10,78	1	0,23	7½ S	*γ Orionis.*
	23	18,2	5	24	31,5	25	42,6	31,68	1	0,23	13½ S	*δ Orionis.*
	27	35,0	5	28	48,0	29	59,2	48,28	1	0,4	14½ S	*ε Orionis.*
	32	10,2	5	33	24,0	34	34,5	23,85	1	0,0	15½ S	*ζ Orionis.*
	39	43,0	5	40	58,0	42	9,0	57,74	2	0,07	23 S	*κ Orionis.*
	45	54,0	5	47	8,0	48	19,0	7,98	1	0,33	6 S	*α Orionis.*
19	8	15,5	22	9	31,0	10	43,0	37,14	1	0,37	- - -	⊙ 1 L.
	10	28,0	22	11	43,4	12	56,0					⊙ 2 L.
	3	14,4	5	4	59,6	6	41,0	59,79	1	0,25	32½ N	*Capella.*
	-	-	5	7	38,0	9	49,0	37,91	1	0,5	21½ S	*β Orionis.*
	15	57,5	5	-	-	18	22,4	11,41	1	0,35	7½ S	*γ Orionis.*
	23	19,0	5	24	32,0	25	43,0	32,23	1	0,57	13½ S	*δ Orionis.*
	27	35,0	5	28	49,0	29	59,3	48,80	1	0,37	14½ S	*ε Orionis.*
	39	44,0	5	40	58,0	42	9,0	57,99	1	0,33	23 S	*κ Orionis.*
20	12	7,5	22	-	-	-	-	29,4	...	...	- - -	⊙ 1 L.
	-	-	22	-	-	16	48,3					⊙ 2 L.
	27	36,0	5	28	50,0	30	0,0	49,73	1	0,0	14½ S	*ε Orionis.*
	32	12,0	5	33	25,5	34	36,0	25,48	1	1,0	15½ S	*ζ Orionis.*
	39	44,2	5	40	59,0	42	10,0	58,79	1	0,73	23 S	*κ Orionis.*
	45	55,0	5	47	9,0	48	20,0	8,98	1	0,67	6 S	*α Orionis.*
21	15	58,0	22	17	13,5	18	25,5	19,43	2	1,04	- - -	⊙ 1 L.
	18	10,0	22	19	26,0	20	38,0					⊙ 2 L.
	P. M. Examined the Line of Collimation and Meridian adjustment,—found both right.											
	3	16,0	5	3	0,6	0	42,6	0,09	2	+ 0,67	32½ N	*Capella.*
	15	59,0	5	17	13,0	18	23,0	12,73	2	0,53	7½ S	*γ Orionis.*
	23	20,0	5	24	34,0	25	44,5	33,85	2	0,75	13½ S	*δ Orionis.*
	27	37,0	5	28	50,5	30	1,0	50,48	1	0,83	14½ S	*ε Orionis.*
	32	12,5	5	33	26,0	34	37,0	26,19	1	0,67	15½ S	*ζ Orionis.*
	45	55,5	5	47	10,0	48	21,0	9,86	1	0,83	6 S	*α Orionis.*
22	-	-	22	-	-	-	-	10,0	1	0,37	- - -	⊙ 1 L.
	-	-	22	23	15,5	24	27,5					⊙ 2 L.
24	27	26,5	22	28	41,0	29	52,5	40,89	1	0,49	- - -	⊙ 1 L.
	29	37,4	22	30	53,0	32	5,0					⊙ 2 L.
	3	17,0	5	5	2,0	6	44,0	2,29	3	0,42	32½ N	*Capella.*
	16	0,0	5	17	14,0	18	25,0	13,98	3	0,45	7½ S	*γ Orionis.*
	23	22,0	5	24	35,0	25	46,0	35,23	3	0,5	13½ S	*δ Orionis.*
	45	57,0	5	47	12,0	48	23,0	11,73	3	0,6	6 S	*α Orionis.*
25	31	14,0	22	32	29,5	33	41,0	35,10	1	1,0	- - -	⊙ 1 L.
	33	26,4	22	34	41,0	35	53,0					⊙ 2 L.
	3	18,0	5	-	-	6	45,0	3,63	1	1,0	32½ N	*Capella.*
	-	-	5	7	41,5	8	53,3	41,75	6	0,65	21½ S	*β Orionis.*
	16	1,0	5	17	15,0	18	26,0	14,98	1	1,0	7½ S	*γ Orionis.*
	23	23,3	5	24	36,0	25	46,5	36,18	1	0,93	13½ S	*δ Orionis.*
	27	39,0	5	28	52,2	30	3,0	52,33	4	0,48	14½ S	*ε Orionis.*
	32	15,5	5	33	28,2	34	39,0	28,45	4	0,56	15½ S	*ζ Orionis.*

In the YEAR M.DCCCXIV.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.		*Names or Characters* of the STARS AND PLANETS.
FEB. 25			5	41	2,0	42	14,0	2,22	5	+0,70	23	S	*α Orionis.*
	45	58,0	5	47	12,4	48	23,5	12,21	1	0,63	6	S	*α Orionis.*
26	35	2,0	22	36	16,5	37	29,2	22,54	1	0,84	-	- -	⊙ 1 *L.*
	37	13,4	22	38	28,3	39	40,0						⊙ 2 *L.*
	At 3 P. M. the Transit Clock stopped, owing to the Suspender of the weight breaking; repaired it,—and set the Clock going again.												
	27	39,0	5	28	52,2	30	3,0	52,32	..	...	14½	S	*ε Orionis.*
	39	46,5	5	41	2,0	42	14,0	1,86	..	...	23	S	*κ Orionis.*
	45	58,0	5	47	12,5	48	23,0	12,21	..	...	6	S	*α Orionis.*
27	38	47,4	22	40	1,5	41	14,3	7,56	1	—1,08	-	- -	⊙ 1 L.
	40	58,3	22	42	13,0	13	25,0						⊙ 2 L.
	23	21,5	5	24	35,6	25	45,0	34,85	..	...	13½	S	*δ Orionis.*
	27	38,0	5	28	51,5	-	-	51,5	1	0,85	14½	S	*ε Orionis.*
	39	46,0	5	41	1,2	42	13,0	1,09	1	0,77	23	S	*κ Orionis.*
	45	56,6	5	47	11,0	48	22,0	10,88	1	1,23	6	S	*α Orionis.*
	EMERSION of JUPITER's *second* Satellite. Time by Clock (S.) 10h 9' 16",5. Mean Time 11h 39' 25",34. Planet near the Zenith: ☽ up: Observation good.												
	EMERSION of JUPITER's *first* Satellite. Time by Clock (S.) 15h 27' 8",5. Mean Time 16h 56' 25",16. Planet low, but clear: Observation good.												
	A. M. Examined the *Line of Collimation* and Meridian adjustment,—found both right.												
28	42	30,2	22	43	45,0	44	56,5	50,51	..	...	-	- -	⊙ 1 L.
	44	41,5	22	45	56,0	47	8,0						⊙ 2 L.
	15	56,2	5	17	11,0	18	22,0	10,78	..	...	7¼	S	*γ Orionis.*
	23	18,2	5	24	31,5	25	42,0	31,53	..	...	13½	S	*δ Orionis.*
	27	34,6	5	28	48,5	-	-	48,31	..	...	14¼	S	*ε Orionis.*
	34	56,3	5	36	16,6	37	34,0	16,69	..	...	7¼	N	☽ 1 L. 7h 3' 16",23 mean Time.
	45	53,0	5	47	7,3	48	18,5	7,26	..	...	6	S	*κ Orionis.*
MARCH 1	46	14,0	22	47	29,0	48	40,0	34,14	1	—0,57	-	- -	⊙ 1 L.
	48	25,0	22	49	40,0	50	51,0						⊙ 2 L.
	15	56,3	5	17	10,0	18	21,0	10,05	1	0,63	7¼	S	*γ Orionis.*
	23	18,0	5	24	31,0	25	42,0	31,23	1	0,23	13½	S	*δ Orionis.*
	27	34,0	5	28	47,5	29	58,2	47,53	1	0,80	14½	S	*ε Orionis.*
	32	10,0	5	33	24,0	34	34,0	23,73	..	...	15½	S	*ζ Orionis.*
	39	42,6	5	40	58,0	42	10,0	57,89	1	0,47	23	S	*κ Orionis.*
	45	53,0	5	47	7,0	48	19,0	7,23	1	+0,07	6	S	*α Orionis.*
	38	14,0	6	39	35,3	40	55,0	35,20	..	...	6½	N	☽ 1 L. 8h 2' 30",49 mean Time.
	EMERSION of JUPITER's *first* Satellite. Time by Clock (S.) 10h 2' 13". Mean Time 11h 24' 29",48. Planet near the Zenith: ☽ up: Clear: Observation good.												
2	49	58,0	22	51	12,5	52	24,0	17,88	1	—0,56	-	- -	⊙ 1 L.
	52	9,0	22	53	23,5	54	35,0						⊙ 2 L.
	32	9,5	5	33	22,6	34	34,0	22,40	1	0,30	15½	S	*ζ Orionis.*
	39	42,0	5	40	57,2	-	-	57,46	1	0,70	23	S	*κ Orionis.*
	45	53,0	5	47	7,0	48	19,6	7,13	1	+0,2	6	S	*α Orionis.*
	41	55,5	7	43	16,4	44	34,0	16,37	..	...	8	N	☽ 1 L. 9h 2' 5",68 mean Time.

In the YEAR M.DCCCXIV.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	Names or Characters of the STARS AND PLANETS.
MARCH 3	53	43,3	22	54	57,5	56	9,0	-	..	...	- - -	☉ 1 L.
	55	54,0	*22	57	9,0	*58	18,5	-	..			☉ 2 L.
	Eastern end of the Axis 0',1 too high.											
	23	19,0	5	24	31,2	25	41,8	31,25	2	+ 0,17	13½ S	δ *Orionis.*
	39	43,0	*5	50	57,5	42	9,0	-	..	...	23 S	κ *Orionis.*
	Eastern end of the Axis of the Transit Instrument 0',01 too high.											
	45	53,0	5	47	7,2	48	19,0	7,33	1	− 0,13	6 S	α *Orionis.*
	-	-	6	16	31,5	17	46,2	31,50	..	...	31 S	β *Can. Maj.*
	27	42,5	6	28	59,0	30	13,0	59,13	..	...	8½ N	γ *Geminorum.*
	37	42,0	*6	38	58,0	40	12,0	-	..	...	29½ S	*Sirius.*
	Eastern end of the Axis 0',61 too high.											
	51	57,0	6	53	20,0	54	41,0	20,96	..	...	42 S	ε *Can. Maj.*
	1	29,0	7	2	51,3	4	10,0	51,57	..	...	39½ S	δ *Can. Maj.*
4	57	26,4	22	58	40,5	59	52,0	-	..	...	- - -	☉ 1 L.
	59	37,0	*23	0	51,4	*2	2,5					☉ 2 L.
	Western end of the Axis 0',05 too high.											
	27	35,0	5	28	47,0	29	57,5	47,00	2	+ 0,0	14½ S	ε *Orionis.*
	52	9,0	5	33	23,0	34	54,0	22,97	2	−0,18	15½ S	ζ *Orionis.*
	39	42,0	*5	40	56,2	42	8,2	-	..	...	23 S	κ *Orionis.*
	Eastern end of the Axis 0',41 too high.											
	45	52,4	5	47	7,0	48	18,5	6,96	1	− 0,43	6 S	α *Orionis.*
	15	14,0	6	16	31,0	17	45,5	31,13	1	0,60	31 S	β *Can. Maj.*
	-	-	6	28	58,4	30	12,5	58,47	1	0,55	8½ N	γ *Geminorum.*
	37	41,0	*6	38	57,4	40	11,0	-	..	...	29½ S	*Sirius.*
	Eastern end of the Axis 0',21 too high.											
	51	56,2	6	53	19,4	54	40,0	19,06	1	− 0,8	42 S	ε *Can. Maj.*
	1	28,3	7	2	50,5	4	9,0	50,75	1	0,83	39½ S	δ *Can. Maj.*
6	4	48,5	23	6	2,4	7	14,0	-	..	...	- - -	☉ 1 L.
	6	59,0	*23	8	13,3	*9	24,2					☉ 2 L.
	Western end of the Axis 0',25 too high.											
	45	49,0	5	47	3,0	48	15,3	3,06	2	− 1,77	6 S	α *Orionis.*
	15	0,0	6	16	27,0	17	41,5	27,13	2	2,0	31 S	β *Can. Maj.*
	27	38,2	6	28	54,4	30	8,0	54,30	2	1,45	8½ N	γ *Geminorum.*
	37	37,0	*6	38	54,0	40	7,0	-	2	2,0	29½ S	*Sirius.*
	Western end of the Axis 0',39 too high.—The Axis may be considered level.											

In the YEAR M.DCCCXIV.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.		Names or Characters of the STARS AND PLANETS.
MARCH 7	8	30,0	23	9	44,0	10	54,9	48,65	..	...	- - -		⊙ 1 L.
	10	39,4	23	11	54,0	13	4,5						⊙ 2 L.
	45	47,0	5	47	2,0	48	13,4	1,83	1	1,63	6	S	α *Orionis.*
	15	9,0	6	16	26,4	17	40,0	26,23	1	1,63	31	S	β *Can. Maj.*
	27	36,3	6	28	53,5	30	7,2	53,38	1	1,2	3½	N	γ *Geminorum.*
	1	24,0	7	2	45,0	4	4,5	46,30	2	1,48	39½	S	δ *Can. Maj.*
	8	11,0	23	13	25,4	14	37,4	30,56	..	...	- - -		⊙ 1 L.
	14	31,5	23	15	35,5	16	47,0						⊙ 2 L.
	15	10,0	6	16	28,0	17	42,0	27,76	1	+1,54	31	S	β *Can. Maj.*
	27	38,0	6	28	54,5	30	8,0	51,50	1	1,17	3½	N	γ *Geminorum.*
	37	37,2	6	38	54,0	40	8,0	54,05	2	0,4	29½	S	*Sirius.*
	51	52,4	6	53	16,0	54	37,0	16,52	..	...	42	S	ε *Can. Maj.*

EMERSION of JUPITER's *first* Satellite.
Time by Clock (S.) 12h 24′ 32″. Mean Time 13h 19′ 3″,06.
Planet high, but hazy: ☽ up: Observation good.

☽	15	54,5	23	17	9,0	18	20,0	13,63	1	+1,87	- - -		⊙ 1 L.
	18	4,0	23	19	18,5	20	30,0						⊙ 2 L.
	15	10,5	6	16	27,7	17	42,0	27,68	1	0,0	31	S	β *Can. Maj.*
	27	38,0	6	28	55,0	30	8,5	54,88	1	0,33	3½	N	γ *Geminorum.*
	37	37,5	6	38	54,4	40	8,2	54,40	1	0,33	29½	S	*Sirius.*
	51	52,5	6	53	16,0	54	37,0	16,55	1	0,03	42	S	ε *Can. Maj.*
	1	25,0	7	2	47,0	4	6,0	47,18	2	0,58	39½	S	δ *Can. Maj.*
	17	18,0	7	18	42,0	20	2,5	42,37	..	...	42	S	η *Can. Maj.*
	23	13,5	7	24	40,0	26	3,5	40,03	..	...	19½	N	*Castor.*
	30	17,0	7	31	31,3	32	42,0	31,12	..	...	7½	S	*Procyon.*
	34	28,8	7	35	53,0	37	13,0	52,77	..	...	15½	N	*Pollux.*
	19	35,0	23	20	47,0	21	57,5	51,80	1	−2,78	- - -		⊙ 1 L.
	21	42,5	23	22	57,0	24	8,0						⊙ 2 L.
	15	7,0	6	16	25,0	17	39,2	24,81	1	2,93	31	S	β *Can. Maj.*
	27	35,0	6	28	52,0	30	6,0	52,0	1	2,4	3½	N	γ *Geminorum.*
	37	35,0	6	38	51,7	40	5,5	51,73	1	2,67	29½	S	*Sirius.*
	51	49,3	6	53	13,0	54	34,0	13,30	1	3,07	42	S	ε *Can. Maj.*

EMERSION of JUPITER's *first* Satellite.
Time by Clock (S.) 6h 59′ 13″,0. Mean Time 7h 46′ 46″,83.
Planet sufficiently high and clear: Observation good.

	17	15,0	7	18	39,0	19	59,5	39,11	1	2,9	42	S	η *Can. Maj.*
	23	10,0	7	24	37,0	26	0,0	36,85	1	3,23	19½	N	*Castor.*
	30	14,4	7	31	28,2	32	39,0	28,17	1	2,9	7½	S	*Procyon.*
	34	26,0	7	35	49,3	37	10,0	49,47	1	3,17	15½	N	*Pollux.*
11	23	11,0	23	24	25,0	25	35,4	29,50	1	2,90	- - -		⊙ 1 L.
	25	20,3	23	26	34,5	27	45,0						⊙ 2 L.
	15	5,0	6	16	22,0	17	36,0	22,01	1	2,73	31	S	β *Can. Maj.*
	27	32,0	6	28	49,2	-	-	49,0	1	2,9	3½	N	γ *Geminorum.*
	51	46,2	6	53	10,4	54	31,0	10,75	1	2,9	42	S	ε *Can. Maj.*
	1	19,3	7	2	41,0	4	0,0	41,25	2	2,95	39½	S	δ *Can. Maj.*
	17	12,0	7	18	36,0	19	57,0	36,22	1	2,83	42	S	η *Can. Maj.*
	23	7,0	7	24	34,0	25	58,0	34,10	1	2,67	19½	N	*Castor.*
	30	11,0	7	31	25,3	32	36,0	25,12	1	3,1	7½	S	*Procyon.*
	-	-	7	35	46,4	37	7,0	46,55	1	2,95	15½	N	*Pollux.*
12	26	48,2	23	28	2,0	29	13,3	7,11	1	2,69	- - -		⊙ 1 L.
	28	58,0	23	30	12,4	31	23,0						⊙ 2 L.
	-	-	6	16	19,0	17	33,3	19,26	1	2,57	31	S	β *Can. Maj.*
	-	-	6	28	46,3	30	0,0	46,17	1	2,9	3½	N	γ *Geminorum.*
	37	29,0	6	38	45,0	39	59,0	45,28	2	2,72	29½	S	*Sirius.*

In the YEAR M.DCCCXIV.

DAY OF THE MONTH.	I. Wire.	MERIDIAN.	III. Wire.	Reduction of Wires.	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
	M S	H M S	M S	S				
MARCH 12	51 44,0	6 53 8,0	54 28,5	8,10	1	2,94	42 S	*ε Can. Maj.*
	1 17,0	7 2 38,0	3 57,0	38,15	1	2,77	39½ S	*δ Can. Maj.*
	17 9,0	7 18 33,0	19 54,0	33,22	1	3,0	42 S	*η Can. Maj.*
	30 8,0	7 31 22,0	32 23,3	22,05	1	3,0	7½ S	*Procyon.*
	34 29,0	7 35 44,0	37 4,0	43,82	1	2,7	15½ N	*Pollux.*
13	30 26,0	23 31 39,0	32 59,0	44,21	1	2,90	- - -	☉ 1 L.
	32 35,0	23 33 49,5	35 0,0					☉ 2 L.
	14 59,4	6 16 17,0	17 31,0	16,86	1	2,15	31 S	*β Can. Maj.*
	27 27,0	6 28 44,0	29 58,0	44,0	1	2,15	3½ N	*γ Geminorum.*
	37 26,7	6 38 43,0	39 57,0	43,18	1	2,10	29½ S	*Sirius.*
	17 6,0	7 18 30,0	19 50,7	30,15	1	3,1	42 S	*η Can. Maj.*
	23 1,8	7 - -	25 53,0	29,11	1	2,35	19½ N	*Castor.*
	30 5,4	7 31 19,8	32 30,3	19,55	1	2,6	7½ S	*Procyon.*
	34 16,5	7 35 40,6	37 1,6	40,75	1	3,03	15½ N	*Pollux.*
	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.							
14	34 4,5	23 35 19,2	36 29,6	25,44	1	+ 0,43	- - -	☉ 1 L.
	36 14,2	23 37 28,3	38 39,0					☉ 2 L.
	14 58,4	6 16 16,0	17 30,5	15,98	1	−0,83	31 S	*β Can. Maj.*
	27 26,5	6 28 44,0	29 57,5	43,95	1	0,34	3½ N	*γ Geminorum.*
	37 26,0	6 38 43,2	39 57,0	43,18	1	0,17	29½ S	*Sirius.*
	51 41,4	6 53 5,0	54 25,3	5,15	1	+0,13	42 S	*ε Can. Maj.*
	1 14,0	7 2 36,0	3 55,0	36,18	1	0,30	39½ S	*δ Can. Maj.*
	17 7,0	7 18 30,5	19 51,5	30,85	1	0,77	42 S	*η Can. Maj.*
	23 2,0	7 24 29,0	25 52,0	28,85	1	−0,27	19½ N	*Castor.*
	30 6,0	7 31 20,0	32 31,0	19,97	1	+0,5	7½ S	*Procyon.*
	34 17,0	7 35 41,2	37 1,6	41,07	1	0,53	15½ N	*Pollux.*
15	37 44,5	23 38 58,4	40 10,0	3,33	1	0,39	- - -	☉ 1 L.
	39 54,0	23 41 8,3	42 19,0					☉ 2 L.
	Wound up the Clock: Arc of Vibration 1°: 38'.							
	14 59,4	6 16 17,0	17 31,0	16,86	1	+ 0,83	31 S	*β Can. Maj.*
	27 26,8	6 28 44,0	29 58,0	43,95	1	0,27	3½ N	*γ Geminorum.*
	37 26,3	6 38 43,0	39 57,0	43,10	1	0,17	29½ S	*Sirius.*
	51 42,0	6 53 5,5	54 26,0	5,72	1	0,6	42 S	*ε Can. Maj.*
	1 14,0	7 2 36,0	3 55,0	36,18	1	0,0	39½ S	*δ Can. Maj.*
	17 7,0	7 18 31,0	19 52,2	31,27	1	0,4	42 S	*η Can. Maj.*
	EMERSION of JUPITER'S *first* Satellite. Time by Clock (S.) 14h 46' 13",5. Mean Time 15h 13' 0",07. Planet sufficiently high, but hazy: ☽ up: Observation good.							
16	41 21,3	23 42 37,0	43 48,0	41,62	1	+ 0,91	- - -	☉ 1 L.
	43 32,4	23 44 46,2	45 57,0					☉ 2 L.
	27 25,0	6 28 42,0	29 56,3	42,08	1	−1,83	3½ N	*γ Geminorum.*
	37 25,0	6 38 41,2	39 55,5	41,48	1	1,6	29½ S	*Sirius.*
	51 39,5	6 53 3,0	54 24,0	3,35	1	2,3	42 S	*ε Can. Maj.*
	1 12,0	7 2 34,0	3 53,0	34,18	1	2,0	39½ S	*δ Can. Maj.*
	17 5,0	7 18 29,0	19 49,6	29,12	1	2,2	42 S	*η Can. Maj.*
	23 0,0	7 24 27,0	25 51,2	27,15	2	0,8	19½ N	*Castor.*
	30 4,0	7 31 18,3	32 29,5	18,25	2	1,73	7½ S	*Procyon.*
	34 16,0	7 35 40,0	37 0,3	39,90	2	1,17	15½ N	*Pollux.*
17	44 59,4	23 46 13,4	47 24,3	17,71	1	3,01	- - -	☉ 1 L.
	47 8,2	23 48 22,2	49 33,0					☉ 2 L.
	27 23,0	6 28 39,5	29 54,0	39,75	1	2,27	3½ N	*γ Geminorum.*
	51 37,0	6 53 1,0	54 21,5	1,10	1	2,33	42 S	*ε Can. Maj.*

In the YEAR M.DCCCXIV.

DAY of the MONTH.	I. Wire. M	S	Meridian. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names* or *Characters* of the STARS and PLANETS.
March 17	1	10,0	7	2	31,5	3	50,6	31,83	1	—	29½ S	ε *Can. Maj.*
	17	2,4	7	18	26,2	19	47,0	26,42	1	2,67	42 S	η *Can. Maj.*
	22	57,3	7	24	25,0	25	48,0	24,68	1	2,67	19¼ N	*Castor.*
	30	1,2	7	31	16,0	32	27,0	15,77	1	2,53	7½ S	*Procyon.*
	34	13,2	7	35	37,0	36	57,5	37,0	1	2,87	15½ N	*Pollux.*
	Emersion of Jupiter's *first* Satellite. Time by Clock (S.) 9h 21′ 17″,5. Mean Time 9h 41′ 10″,77. Planet near the Zenith: Clear: Observation good.											
18	48	36,0	23	49	49,8	51	0,0	54,15	1	2,36	- - -	⊙ 1 L.
	50	45,3	23	51	59,0	53	9,0					⊙ 2 L.
	-	-	6	28	37,0	29	51,7	37,0	1	2,40	3½ N	γ *Geminorum.*
	37	19,4	6	38	35,7	39	49,5	35,85	2	2,85	29½ S	*Sirius.*
	51	34,0	6	52	58,2	54	19,0	58,32	1	2,77	42 S	ε *Can. Maj.*
	1	7,0	7	2	29,0	3	48,0	29,18	1	2,7	39½ S	δ *Can. Maj.*
	22	54,4	7	24	22,0	25	45,0	21,70	1	2,97	19¼ N	*Castor.*
	-	-	7	31	13,0	32	24,0	12,96	1	3,0	7½ S	*Procyon.*
	34	10,2	7	35	34,4	36	55,0	34,32	1	2,7	15½ N	*Pollux.*
19	52	10,5	23	53	35,0	54	36,0					
	54	20,0	23	55	33,5	56	45,0	29,50	1	3,65	- - -	⊙ 1 L.
	37	16,5	6	38	33,3	39	47,0	33,30	1	2,6	29½ S	⊙ 2 L.
	51	31,0	6	52	55,0	54	15,5	55,10	1	3,23	42 S	*Sirius.*
	16	56,2	7	18	20,4	19	40,0	20,22	2	3,17	42 S	ε *Can. Maj.*
	22	51,6	7	24	18,0	25	42,0	18,25	1	3,27	19¼ N	η *Can. Maj.*
	29	35,0	7	31	9,0	32	20,4	9,07	1	3,8	7½ S	*Castor.*
	34	7,0	7	35	31,0	36	51,0	30,82	1	3,53	15½ N	*Procyon.*
												Pollux.
20	The Transit Clock cleaned.											
	37	33,0	6	38	50,0	40	4,0	50,0	..	...	29½ S	*Sirius.*
	51	49,0	6	53	13,3	54	34,2	13,42	..	...	42 S	ε *Can. Maj.*
	1	22,2	7	2	44,0	4	3,6	44,38	..	...	39½ S	δ *Can. Maj.*
	17	16,2	7	18	40,4	20	1,0	40,48	..	...	42 S	η *Can. Maj.*
	30	16,0	7	31	30,0	32	41,0	29,97	..	...	7½ S	*Procyon.*
	34	28,0	7	35	51,5	37	12,0	51,57	..	...	15½ N	*Pollux.*
21	0	37,4	0	1	51,2	3	2,0	55,31	..	...	- - -	⊙ 1 L.
	2	47,5	0	4	0,0	5	10,5					⊙ 2 L.
	38	44,2	6	40	1,0	41	15,0	1,05	1	+1:11,1	29½ S	*Sirius.*
	Lengthened the Pendulum 76 Divisions.											
22	1	36,5	0	2	50,0	4	1,4	54,58	..	...	- - -	⊙ 1 L.
	3	44,5	0	4	59,3	6	10,0					⊙ 2 L.
	35	47,6	6	37	3,5	38	17,6	3,80	..	...	29½ S	*Sirius.*
	50	1,5	6	51	25,0	52	46,0	25,35	..	...	42 S	ε *Can. Maj.*
	59	34,4	7	0	56,0	2	15,0	56,30	..	...	39½ S	δ *Can. Maj.*
	15	27,0	7	16	51,3	18	12,0	51,37	..	...	42 S	η *Can. Maj.*
	21	22,0	7	22	48,8	24	13,0	49,0	..	...	19¼ N	*Castor.*
	28	26,4	7	29	40,0	30	51,4	40,17	..	...	7½ S	*Procyon.*
	32	38,2	7	34	2,0	35	22,3	1,95	..	...	15½ N	*Pollux.*
	Emersion of Jupiter's *third* Satellite. Time by Clock (S.) 8h 5′ 57″,5. Mean Time 8h 7′ 58″,07. Planet high and clear: Observation good.											
23	5	15,4	0	6	29,0	7	40,0	33,60	1	+ 0,72	- - -	⊙ 1 L.
	7	23,8	0	8	38,0	9	49,6					⊙ 2 L.
	50	2,5	6	51	27,0	52	47,3	26,92	1	1,15	42 S	ε *Can. Maj.*
	59	36,0	7	0	57,4	2	16,2	57,68	1	1,4	39½ S	δ *Can. Maj.*

In the YEAR M.DCCCXIV.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	Names or Characters of the STARS AND PLANETS.
MARCH 23	15	28,0	7	16	52,2	18	13,3	52,40	1	+ 1,07	42 S	η *Can. Maj.*
	21	23,0	7	22	50,0	24	14,0	50,10	1	1,07	19½ N	*Castor.*
	28	27,0	7	29	41,0	30	52,0	40,97	1	0,73	7½ S	*Procyon.*
	32	39,0	7	34	3,2	35	23,0	2,92	1	0,9	15½ N	*Pollux.*
			IMMERSION of JUPITER's *fourth* Satellite. Time by Clock (S.) 9h 25′ 50″. Mean Time 9h 23′ 40″,70. Planet very high, and clear: Observation good.									
			EMERSION of JUPITER's *fourth* Satellite. Time by Clock (S.) 13h 50′ 24″. Mean Time 13h 47′ 31″,20. Planet sufficiently high, and flying Clouds: Observation, however, satisfactory.									
			A small fixed STAR emerged from behind the body of ♃. Time by Clock (S.) 13h 48′ 55″.									
24	8	54,2	0	10	8,0	11	19,5	12,83	1	+ 1,28	⊙ 1 L.	
	11	3,5	0	12	18,0	13	28,0				⊙ 2 L.	
	59	36,6	7	0	58,0	2	17,0	58,33	1	0,67	39½ S	δ *Can. Maj.*
	15	29,0	7	16	53,0	18	14,0	53,22	1	0,83	42 S	η *Can. Maj.*
	21	24,0	7	22	51,0	24	15,2	51,15	1	1,07	19½ N	*Castor.*
	28	28,0	7	29	42,0	30	53,0	41,97	1	1,0	7½ S	*Procyon.*
	32	40,0	7	34	4,0	35	24,0	3,82	1	0,93	15½ N	*Pollux.*
			EMERSION of JUPITER's *second* Satellite. Time by Clock (S.) 8h 50′ 43″,5. Mean Time 8h 47′ 43″,01. Planet high and clear: Observation good.									
			EMERSION of JUPITER's *first* Satellite. Time by Clock (S.) 11h 42′ 8″,5. Mean Time 11h 39′ 39″,80. Planet near the Zenith: Clear: Observation good.									
25	12	38,5	0	13	48,0	14	58,2	51,81	1	+ 0,98	⊙ 1 L.	
	14	42,4	0	15	56,0	17	7,0				⊙ 2 L.	
	50	4,5	6	51	28,0	52	49,0	28,06	1	1,0	42 S	ε *Can. Maj.*
	59	37,2	7	0	59,0	2	18,0	59,29	1	0,87	39½ S	δ *Can. Maj.*
	15	30,0	7	16	54,2	18	15,0	54,32	1	1,07	42 S	η *Can. Maj.*
	21	25,2	7	22	52,0	24	16,0	52,15	1	1,0	19½ N	*Castor.*
	-	-	7	29	43,0	30	54,2	43,35	1	1,1	7½ S	*Procyon.*
	32	41,0	7	34	3,2	35	25,0	4,92	1	1,07	15½ N	*Pollux.*
26	16	13,0	0	17	27,0	18	38,0	31,08	1	+ 1,27	⊙ 1 L.	
	18	21,0	0	19	35,3	20	46,3				⊙ 2 L.	
	50	5,6	6	51	29,4	52	50,0	29,59	1	1,13	42 S	ε *Can. Maj.*
	59	38,6	7	1	0,5	2	19,0	0,58	1	1,3	39½ S	δ *Can. Maj.*
	15	31,0	7	16	55,4	18	16,0	55,42	1	1,07	42 S	η *Can. Maj.*
	-	-	7	22	53,3	24	17,0	53,31	1	1,15	19½ N	*Castor.*
	28	30,0	7	29	44,0	30	55,2	44,02	1	1,0	7½ S	*Procyon.*
	32	42,0	7	34	6,2	35	26,0	5,92	1	1,0	15½ N	*Pollux.*
27	19	52,0	0	21	5,4	22	16,5	10,11	1	1,13	⊙ 1 L.	
	22	1,0	0	23	15,0	24	25,0				⊙ 2 L.	
	59	40,0	7	1	2,0	2	20,2	1,98	1	1,37	39½ S	δ *Can. Maj.*
	15	32,4	7	16	56,5	18	17,4	56,67	1	1,3	42 S	η *Can. Maj.*
	21	27,5	7	22	54,6	24	18,0	54,53	1	1,15	19½ N	*Castor.*
	-	-	7	29	45,0	30	56,7	45,0	1	1,25	7½ S	*Procyon.*
	-	-	7	34	7,4	35	27,0	7,05	1	1,1	15½ N	*Pollux.*
28	23	31,0	0	24	45,0	25	55,0	49,90	1	1,89	⊙ 1 L.	
	25	41,2	0	26	53,0	28	4,0				⊙ 2 L.	

In the YEAR M.DCCCXIV.

DAY of the MONTH.	I. Wire. M	I. Wire. S	Meridian. H	Meridian. M	Meridian. S	III. Wire. M	III. Wire. S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS and PLANETS.
MARCH 28	15	33,5	7	16	57,4	18	18,4	57,65	1	+1,0	42 S	*η Can. Maj.*
	21	29,0	7	22	55,5	24	19,5	55,68	1	1,23	19½ N	*Castor.*
	32	44,0	7	34	8,5	35	23,1	8,17	1	1,25	15½ N	*Pollux.*
	Lengthened the Pendulum 1 division.											
29	27	3,0	0	28	16,0	29	28,0	20,80	..	. . .	- - -	⊙ 1 L.
	29	11,0	0	30	25,0	31	36,0					⊙ 2 L.
	20	15,0	7	21	35,0	22	53,7	34,83	..	. . .	8½ N	☽ 1 L. 6h 56′ 11″,43 mean Time.
	28	26,0	7	29	40,0	30	51,0	39,97	..	. . .	7¾ S	*Procyon.*
	32	38,0	7	34	1,5	35	22,0	1,57	..	. . .	15½ N	*Pollux.*
	2	8,0	8	3	55,0	5	38,0	55,02	..	. . .	59½ S	*γ Navis.*
	16	26,3	8	18	48,7	21	6,0	48,79	..	. . .	72 S	*ε Navis.*
	37	36,4	8	39	41,0	41	41,5	41,17	..	. . .	67 S	*δ Navis.*
	EMERSION of JUPITER's *third* Satellite. Time by Clock (S.) 12h 32′ 9″,5. Mean Time 12h 5′ 55″,34. Planet high and clear: ☽ up: Observation good.											
30	30	40,0	0	31	54,4	33	5,4	58,76	1	+0,06	- - -	⊙ 1 L.
	32	49,0	0	34	3,0	35	15,0					⊙ 2 L.
	-	-	7	16	50,7	18	11,8	- -	..	. . .	42 S	*η Can. Maj.*
	21	22,0	7	22	49,9	24	13,0	49,10	..	. . .	19½ N	*Castor.*
	28	26,0	7	29	40,0	30	50,0	39,72	..	. . .	7¾ S	*Procyon.*
	32	38,0	7	34	1,0	35	22,0	1,32	..	. . .	15½ N	*Pollux.*
	35	34,0	7	37	9,0	38	41,8	- -	..	. . .	52½ S	*ζ Navis.*
	2	7,7	8	5	55,0	5	38,2	55,0	1	−0,03	59½ S	*γ Navis.*
	22	6,2	8	23	26,3	24	43,4	26,34	..	. . .	7 N	☽ 1 L. 7h 58′ 56″,93 mean Time.
	37	36,0	8	39	41,5	41	41,2	41,24	1	0,07	67 S	*δ Navis.*
31	34	18,0	0	35	32,5	36	43,5	36,46	1	0,30	- - -	⊙ 1 L.
	36	27,0	0	37	40,0	38	52,0					⊙ 2 L.
	28	26,0	7	29	40,0	30	50,5	39,85	1	+0,17	7¾ S	*Procyon.*
	32	37,3	7	34	1,0	35	21,5	1,02	1	−0,4	15½ N	*Pollux.*
	35	34,2	7	37	9,0	38	41,4	- -	1	0,07	52½ S	*ζ Navis.*
	2	7,3	8	5	55,0	5	38,6	54,85	1	0,20	59½ S	*γ Navis.*
	-	-	8	18	48,0	21	5,5	- -	2	0,3	72 S	*ε Navis.*
	EMERSION of JUPITER's *second* Satellite. Time by Clock (S.) 11h 55′ 8″,5. Mean Time 11h 21′ 8″,95. Planet very high: Clear: ☽ up and near ☍: Observation good.											
APRIL 1	37	56,4	0	39	10,0	40	21,0	14,30	1	−0,26	- - -	⊙ 1 L.
	40	4,3	0	41	18,5	42	30,0					⊙ 2 L.
	28	26,0	7	29	40,0	30	50,0	39,72	1	0,17	7¾ S	*Procyon.*
	32	37,0	7	34	1,2	35	21,0	0,92	1	0,2	15½ N	*Pollux.*
	35	34,0	7	37	9,0	38	41,0	9,16	1	0,2	52½ S	*ζ Navis.*
	2	7,0	8	3	54,5	5	37,6	54,42	1	0,4	59½ S	*γ Navis.*
	16	25,3	8	18	48,0	21	5,3	48,01	1	0,07	72 S	*ε Navis.*
	37	35,5	8	39	40,5	41	41,0	40,57	..	. . .	67 S	*δ Navis.*
	17	19,0	9	18	34,0	19	45,0	33,82	..	. . .	21 S	*α Hydræ.*
2	41	34,0	0	42	47,5	48	59,3	52,14	1	0,25	- - -	⊙ 1 L.
	43	42,5	0	44	56,6	46	7,3					⊙ 2 L.
	28	25,2	7	29	39,0	30	50,0	39,02	1	0,6	7¾ S	*Procyon.*
	32	37,2	7	34	1,0	35	21,0	0,87	1	0,0	15½ N	*Pollux.*
	2	6,5	8	3	54,0	5	38,0	54,15	1	0,2	59½ S	*γ Navis.*
	16	25,5	8	18	48,0	21	5,0	47,99	1	0,03	72 S	*ε Navis.*

In the YEAR M.DCCCXIV.

DAY of the MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.		*Names* or *Characters* of the STARS AND PLANETS.
APRIL 2	EMERSION of JUPITER's *first* Satellite. Time by Clock (S.) 8h 39′ 40″. Mean Time 7h 58′ 20″,97. Planet high and clear: ☽ near ☍: Observation good.												
	17	19,0	9	18	33,8	19	44,0	32,90	1	0,4	21	S	*α Hydræ.*
3	45	12,0	0	46	25,0	47	37,8						
	47	20,0	0	48	35,0	49	45,0	30,07	1	0,27	-	- -	⊙ 1 L.
	28	25,5	7	29	39,0	30	49,6	39,0	1	0,03	7½	S	⊙ 2 L.
	32	36,8	7	34	0,5	35	21,0	0,55	1	0,30	15¾	N	*Procyon.*
	2	6,4	8	3	54,0	5	37,6	54,02	1	0,17	59¼	S	*Pollux.*
	37	35,0	8	39	40,0	41	41,0	40,19	2	0,17	67	S	*γ Navis.*
													δ Navis.
	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.												
4	48	50,0	0	50	3,4	51	15,0						
	51	57,5	0	52	12,0	53	24,0	8,06	1	0,41	-	- -	⊙ 1 L.
	55	33,0	7	57	8,0	58	40,0	8,16	1	0,33	52¼	S	⊙ 2 L.
	2	6,0	8	3	54,0	5	37,6	53,92	1	0,13	59¼	S	*ζ Navis.*
													γ Navis.
5	52	28,0	0	53	42,0	54	53,2						
	54	36,3	0	55	51,0	57	2,5	46,46	1	0,10	-	- -	⊙ 1 L.
	55	33,0	7	57	8,0	58	40,0	8,16	1	0,0	52¼	S	⊙ 2 L.
	2	6,0	8	3	53,5	5	37,0	53,52	1	0,37	59¼	S	*ζ Navis.*
	16	24,0	8	18	47,0	21	4,0	46,86	3	0,39	72	S	*γ Navis.*
	37	34,0	8	39	39,4	41	40,2	39,44	2	0,40	67	S	*ε Navis.*
													δ Navis.
6	56	6,0	0	57	20,0	58	31,5						
	58	15,5	0	59	29,2	0	40,4	24,71	1	0,59	-	- -	⊙ 1 L.
	55	32,4	7	57	7,4	58	39,3	7,52	1	0,63	52¼	S	⊙ 2 L.
	2	5,2	8	3	53,0	5	36,2	52,87	1	0,7	59¼	S	*ζ Navis.*
	16	23,2	8	18	46,0	21	3,2	45,96	1	0,87	72	S	*γ Navis.*
	37	33,3	8	39	39,0	41	39,5	38,89	1	0,6	67	S	*ε Navis.*
	17	17,0	9	18	32,0	19	43,0	31,82	5	0,4	21	S	*δ Navis.*
													α Hydræ.
7	59	44,0	1	0	59,8	2	10,0						
	1	54,0	1	3	7,6	4	18,0	3,29	1	0,32	-	- -	⊙ 1 L.
	55	32,0	7	57	7,0	58	39,0	7,16	1	0,37	52¼	S	⊙ 2 L.
	2	5,0	8	3	52,5	5	36,0	52,55	1	0,3	59¼	S	*ζ Navis.*
	16	23,0	8	18	46,0	21	3,0	45,86	1	0,13	72	S	*γ Navis.*
													ε Navis.
	EMERSION of JUPITER's *second* Satellite. Time by Clock (S.) 15h 0′ 34″. Mean Time 13h 58′ 34″,63. Planet very low; flying Clouds: Observation otherwise good.												
8	3	22,2	1	4	37,2	5	49,0						
	5	32,0	1	6	47,0	7	58,5	41,93	1	0,46	-	- -	⊙ 1 L.
	37	33,0	8	39	38,5	41	38,8	38,39	1	0,23	67	S	⊙ 2 L.
	17	17,0	9	18	31,0	19	43,0	31,21	2	0,17	21	S	*δ Navis.*
													α Hydræ.
9	7	2,0	1	8	16,5	9	28,4						
	9	11,0	1	10	25,6	11	37,0	21,03	1	0,50	-	- -	⊙ 1 L.
	55	32,4	7	57	7,0	58	39,0	7,26	2	+0,07	52¼	S	⊙ 2 L.
	2	5,0	8	3	52,0	5	35,3	52,10	2	−0,2	59¼	S	*ζ Navis.*
	16	23,0	8	18	45,4	21	2,3	45,39	2	0,22	72	S	*γ Navis.*
	37	33,0	8	39	38,7	41	39,0	38,54	1	+0,13	67	S	*ε Navis.*
													δ Navis.
	EMERSION of JUPITER's *fourth* Satellite. Time by Clock (S.) 8h 50′ 43″. Mean Time 7h 41′ 52″,94. Planet very high, and clear: Observation good.												

In the YEAR M.DCCCXIV.

DAY of the MONTH	I. Wire. M	S	Meridian. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names* or *Characters* of the STARS and PLANETS.
April 9	17	17,0	9	18	31,0	19	42,0	30,96	2	0,17	21 S	*α Hydræ.*
	-	-	10	12	42,2	13	54,0	41,91	..	...	½ S	*ψ Centrum.* 9h 3′ 38″,21 mean Time.
	Emersion of Jupiter's *first* Satellite. Time by Clock (S.) 11h 2′ 12″,5. Mean Time 9h 53′ 0″,91. Planet very high, and clear: Observation good.											
10	10	42,0	1	11	56,0	13	7,5	0,65	1	0,0	- - -	⊙ 1 L.
	12	50,0	1	14	5,5	15	17,0					⊙ 2 L.
	Wound up the Clock: Arc of Vibration 1°: 37′. The second hand stopt at times while the Clock was winding up.											
	55	8,2	7	56	43,0	58	13,0	42,71	..	...	52½ S	*ζ Navis.*
	1	41,0	8	3	28,0	5	11,0	28,02	..	...	59½ S	*γ Navis.*
	15	59,2	8	18	21,0	20	39,0	21,83	..	...	72 S	*ε Navis.*
	37	9,0	8	39	14,4	41	15,0	14,39	..	...	67 S	*δ Navis.*
	16	53,0	9	18	7,2	19	18,0	7,06	..	...	21 S	*α Hydræ.*
	56	52,0	9	58	8,0	59	20,0	7,72	..	...	¼ N	*Regulus.*
	-	-	10	12	7,0	13	18,2	5,81	..	...	1 S	*ψ Centrum.* 8h 59′ 30″,30 mean Time.
	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.											
11	13	57,5	1	15	12,0	16	21,0	16,79	..	...	- - -	⊙ 1 L.
	16	7,0	1	17	20,0	18	33,0					⊙ 2 L.
	55	8,0	7	56	43,0	58	13,2	42,71	1	−0,13	52½ S	*ζ Navis.*
	1	41,0	8	3	28,0	5	11,0	28,02	1	0,0	59½ S	*γ Navis.*
	37	9,2	8	39	14,7	41	15,0	14,59	1	+0,17	67 S	*δ Navis.*
	16	53,0	9	18	7,0	19	18,2	7,61	1	0,0	21 S	*α Hydræ.*
	56	52,0	9	58	7,5	59	20,0	7,47	1	0,17	¼ N	*Regulus.*
12	17	57,3	1	18	52,0	20	4,0	56,91	1	−0,18	- - -	⊙ 1 L.
	19	47,0	1	21	2,0	22	13,5					⊙ 2 L.
	1	40,8	8	3	28,0	5	11,0	27,97	1	0,07	59½ S	*γ Navis.*
	15	58,0	8	18	20,3	20	38,0	20,51	2	0,43	72 S	*ε Navis.*
	13	57,0	9	16	2,0	18	3,0	2,19	..	...	67½ S	*κ Navis.*
	21	28,0	9	23	4,0	24	36,0	3,91	..	...	53 S	*ψ Navis.*
	56	52,4	9	58	8,0	59	20,4	7,92	1	+0,43	¼ N	*Regulus.*
	10	28,3	10	11	45,0	12	56,0	43,55	..	...	½ S	*ψ Centrum.* 8h 51′ 16″,09 mean Time.
13	21	18,0	1	22	32,2	23	45,0	37,31	1	−0,10	- - -	⊙ 1 L.
	23	27,0	1	24	42,0	25	54,0					⊙ 2 L.
	1	41,0	8	3	28,0	5	11,0	28,02	1	+0,07	59½ S	*γ Navis.*
	15	58,2	8	18	20,5	20	38,5	20,79	1	0,3	72 S	*ε Navis.*
	37	8,8	8	39	14,7	41	15,0	14,49	2	−0,07	67 S	*δ Navis.*
	43	59,0	8	45	15,3	46	25,0	13,35	..	...	61 S	*ζ Hydræ.*
	48	43,0	8	50	53,0	52	18,4	32,91	..	...	33 N	*κ Urs. Maj.*
	9	27,0	9	11	48,3	14	3,0	48,01	..	...	71½ S	*ι Navis.*
	21	27,5	9	23	4,0	24	36,0	3,78	1	0,17	53 S	*ψ Navis.*
	10	18,3	10	11	34,0	12	46,2	33,82	..	...	½ S	*ψ Centrum.* 8h 47′ 10″,58 mean Time.
14	24	58,3	1	26	14,0	27	25,5	18,25	1	+0,44	- - -	⊙ 1 L.
	27	8,0	1	28	23,0	29	35,0					⊙ 2 L.
	37	9,2	8	39	14,4	41	15,0	14,44	1	0,03	67 S	*δ Navis.*
	43	59,0	8	45	13,0	46	24,8	13,16	1	−0,17	61 S	*ζ Hydræ.*
	48	43,0	8	50	33,0	52	18,0	32,80	1	0,13	35 N	*κ Urs. Maj.*
	59	10,0	9	0	50,0	2	26,0	49,96	1	0,0	56 S	*λ Navis.*
	9	27,2	9	11	48,0	14	3,0	47,91	1	0,03	71 S	*ι Navis.*
	21	27,2	9	23	4,0	24	36,0	4,16	1	0,17	53 S	*ψ Navis.*
	56	52,5	9	58	8,0	59	20,0	7,84	2	0,05	¼ N	*Regulus.*
	10	9,3	10	11	25,0	12	37,0	24,77	..	...	½ S	*ψ Centrum.* 8h 43′ 5″,41 mean Time.

In the YEAR M.DCCCXIV.

DAY of the MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.		Names or Characters of the STARS AND PLANETS.
										+			
APRIL 15	28	40,0	1	29	54,5	31	6,4	59,30	1	0,15	-	- -	☉ 1 L.
	30	49,2	1	32	4,0	33	16,0						☉ 2 L.
	15	59,0	8	18	22,0	20	39,0	21,86	1	0,33	72	S	ε *Navis.*
	37	9,0	8	39	14,0	41	15,0	14,19	1	−0,2	67	S	δ *Navis.*
	43	59,0	8	45	19,0	46	25,0	13,21	1	+0,07	6½	S	ζ *Hydræ.*
	9	26,4	9	11	47,3	-	-	47,40	1	−0,75	71	S	ι *Navis.*
	16	53,0	9	18	7,0	-	-	7,06	4	0,02	21	S	α *Hydræ.*
	21	28,0	9	23	4,0	24	36,0	3,91	1	+0,23	53	S	♃ *Navis.*
	56	53,0	9	58	8,0	59	20,2	8,02	1	0,23	½	N	*Regulus.*
16	32	21,0	1	33	36,0	34	48,0	40,95	1	0,05	-	- -	☉ 1 L.
	34	31,0	1	35	46,0	36	58,0						☉ 2 L.
	15	59,5	8	18	22,0	20	39,0	21,99	1	0,17	72	S	ε *Navis.*
	37	9,3	8	39	15,0	41	15,0	14,77	1	0,43	67	S	δ *Navis.*
	43	59,0	8	45	13,5	46	25,0	13,46	1	0,17	6½	S	ζ *Hydræ.*
	-	-	8	50	33,0	52	18,4	32,75	1	0,2	35	N	κ *Urs. Maj.*
	59	10,0	9	0	30,0	2	26,0	49,96	2	0,0	56	S	λ *Navis.*
	9	27,0	9	11	48,0	14	3,0	47,86	1	0,65	71	S	ι *Navis.*
	16	53,0	9	18	8,0	19	19,4	7,81	1	0,5	21	S	α *Hydræ.*
	21	28,0	9	23	4,0	24	36,0	3,91	1	0,0	53	S	♃ *Navis.*

EMERSION of JUPITER'S *first* Satellite.
Time by Clock (S.) 13h 23′ 10″. Mean Time 11h 46′ 27″,29.
Planet high: flying Clouds: Observation good.

										+			
17	36	3,5	1	37	18,0	38	30,4	23,10	1	0,15	-	- -	☉ 1 L.
	38	13,0	1	39	28,0	40	40,0						☉ 2 L.
	37	9,2	8	39	15,0	41	15,0	14,74	1	−0,03	67	S	δ *Navis.*
	48	43,3	8	50	33,0	52	19,0	33,12	1	+0,3	35	N	κ *Urs. Maj.*
	9	27,0	9	11	47,8	14	3,0	47,76	1	−0,07	71	S	ι *Navis.*
	16	53,3	9	18	8,0	19	19,0	7,78	1	0,03	21	S	α *Hydræ.*
	21	28,0	9	23	4,0	24	36,0	3,91	1	0,0	53	S	♃ *Navis.*
	56	53,0	9	58	8,2	59	21,0	8,32	2	+0,17	½	N	*Regulus.*
18	39	45,5	1	41	0,0	42	12,0	4,96	1	−0,44	-	- -	☉ 1 L.
	41	58,0	1	43	10,0	44	29,0						☉ 2 L.
	37	9,0	8	39	15,0	41	15,0	14,85	1	0,07	67	S	δ *Navis.*
	48	44,0	8	50	33,0	52	19,0	33,17	1	+0,23	35	N	κ *Urs. Maj.*
	59	10,0	9	0	51,0	2	27,0	50,71	2	0,33	56	S	λ *Navis.*
	9	27,0	9	11	48,0	14	3,3	47,94	1	0,17	71	S	ι *Navis.*
	16	53,0	9	18	8,0	19	19,0	7,71	1	−0,1	21	S	α *Hydræ.*
	21	28,8	9	23	4,0	24	36,0	4,11	1	0,27	53	S	♃ *Navis.*
	56	53,0	9	58	8,0	59	21,4	8,15	1	+0,07	½	N	*Regulus.*
19	43	28,4	1	44	44,0	45	55,5	48,60	1	0,84	-	- -	☉ 1 L.
	45	39,0	1	46	53,0	48	6,0						☉ 2 L.
	37	9,4	8	39	15,2	41	15,0	14,89	1	0,2	67	S	δ *Navis.*
	44	0,0	8	45	14,0	46	25,0	13,96	1	0,33	6½	S	ζ *Hydræ.*
	48	44,0	8	50	33,0	52	18,7	33,22	1	−0,1	35	N	κ *Urs. Maj.*
	59	10,4	9	0	51,0	2	27,0	50,81	1	+0,13	56	S	λ *Navis.*
	9	27,4	9	11	48,0	14	3,0	47,96	1	0,03	71	S	ι *Navis.*
	-	-	9	18	8,2	19	19,0	7,92	1	0,07	21	S	α *Hydræ.*
	-	-	9	23	4,4	24	36,0	4,07	1	0,2	53	S	♃ *Navis.*
	56	53,0	9	58	8,4	59	21,5	8,54	1	0,17	½	N	*Regulus.*
20	47	10,0	1	48	26,4	49	38,7	30,73	1	0,97	-	- -	☉ 1 L.
	49	21,0	1	50	37,0	51	49,0						☉ 2 L.
	44	0,0	8	45	14,0	46	25,0	13,96	1	0,0	6½	S	ζ *Hydræ.*
	48	43,3	8	50	33,4	52	19,2	33,37	1	−0,07	35	N	κ *Urs. Maj.*
	59	10,5	9	0	51,0	2	27,0	50,83	1	+0,03	56	S	λ *Navis.*
	9	26,8	9	11	48,0	14	3,0	47,81	1	−0,20	71	S	ι *Navis.*
	16	54,0	9	18	8,0	19	19,5	8,08	1	+0,1	21	S	α *Hydræ.*
	21	29,0	9	23	4,5	24	36,0	4,41	1	0,05	53	S	♃ *Navis.*
	56	53,2	9	58	9,0	59	21,5	8,89	1	0,27	½	N	*Regulus.*

In the YEAR M.DCCCXIV.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	Names or Characters of the STARS AND PLANETS.
										+		
APRIL 21	50	55,0	1	52	10,0	53	22,0	15,12	1	0,79	- - -	⊙ 1 L.
	53	5,0	1	54	20,0	55	33,0					⊙ 2 L.
	44	0,2	8	45	14,2	46	25,0	14,0	1	0,13	6½ S	ζ *Hydræ.*
	48	43,0	8	50	33,3	52	19,0	33,20	1	—0,20	35 N	κ *Urs. Maj.*
	59	10,3	8	0	51,0	2	27,0	50,78	1	0,07	56 S	λ *Navis.*
	9	27,0	9	11	48,0	14	3,0	47,86	1	+0,07	71 S	ι *Navis.*
	16	54,0	9	18	8,0	19	19,0	7,96	1	0,17	21 S	α *Hydræ.*
	21	29,0	9	23	4,7	24	36,0	4,51	1	0,07	53 S	↓ *Navis.*
	56	53,0	9	58	9,0	59	21,0	8,72	1	0,23	½ N	*Regulus.*
22	54	38,0	1	55	51,0	57	6,0	58,87	1	—0,35	- - -	⊙ 1 L.
	56	48,5	1	58	4,0	59	17,0					⊙ 2 L.
	44	0,0	8	45	14,4	46	25,0	14,16	1	0,0	6½ S	ζ *Hydræ.*
	48	43,5	8	50	33,0	52	19,0	33,20	1	+0,07	35 N	κ *Urs. Maj.*
	59	11,0	9	0	51,0	2	27,0	50,96	1	0,23	56 S	λ *Navis.*
	13	57,2	9	16	3,0	18	4,0	2,99	..	. . .	67½ S	κ *Navis.*
	21	29,0	9	23	4,3	24	36,0	4,31	1	—0,1	53 S	↓ *Navis.*
	56	53,0	9	58	8,2	59	21,0	8,32	1	0,27	½ N	*Regulus.*
	3	49,6	10	5	31,0	7	9,0	31,16	..	. . .	31 N	λ *Urs. Maj.*
	8	5,0	10	9	23,0	10	39,0	23,25	..	. . .	7½ N	γ *Leonis.*
23	58	22,5	1	59	38,0	0	50,3	48,29	1	+0,02	- - -	⊙ 1 L.
	0	33,0	2	1	49,0	3	2,4					⊙ 2 L.
	48	44,0	8	50	33,0	52	19,0	33,20	1	0,17	35 N	κ *Urs. Maj.*
	13	57,0	9	16	3,0	18	4,3	2,99	1	—0,0	67½ S	κ *Navis.*
	56	53,0	9	58	8,0	59	21,0	8,22	1	0,07	½ N	*Regulus.*
	8	5,2	10	9	23,3	10	39,0	23,45	1	+0,17	7½ N	γ *Leonis.*
24	2	7,0	2	3	22,2	4	35,0	27,86	1	—0,33	- - -	⊙ 1 L.
	4	18,0	2	5	33,2	6	46,0					⊙ 2 L.
	8	5,0	10	9	23,8	10	39,0	23,65	1	+0,1	7½ N	γ *Leonis.*

A. M. Examined the Line of Collimation and Meridian adjustment;—found both right.

										+		
25	5	52,0	2	7	8,0	8	20,5	13,29	1	0,03	- - -	⊙ 1 L.
	8	5,0	2	9	18,5	10	32,0					⊙ 2 L.
	59	11,0	9	0	51,0	2	28,0	51,24	3	0,12	56 S	λ *Navis.*
	13	57,0	9	16	3,8	18	4,0	2,94	2	—0,03	67½ S	κ *Navis.*
	56	53,4	9	58	8,5	59	21,0	8,57	2	0,15	½ N	*Regulus.*

EMERSION of JUPITER's *first* Satellite.
Time by Clock (S.) 10h 17′ 7″,5. Mean Time 8h 5′ 31″,56.
Planet in the Zenith: the position aukward: Clear: ☽ up: Observation good.

EMERSION of JUPITER's *second* Satellite.
Time by Clock (S.) 10h 40′ 50″. Mean Time 8h 29′ 10″,19.
Planet near the Zenith: Clear: ☽ up: Observation good.

										+		
26	9	38,0	2	10	53,8	12	6,5	59,34	1	0,25	- - -	☿ 1 L.
	11	49,0	2	13	5,0	14	18,0					☿ 2 L.
	59	11,0	9	0	51,0	2	27,5	51,08	1	—0,2	56 S	λ *Navis.*
	13	57,0	9	16	3,8	18	4,0	3,09	1	+0,1	67½ S	κ *Navis.*
	21	29,0	9	23	5,2	24	36,4	4,86	1	0,2	53 S	↓ *Navis.*
	3	50,5	10	5	32,0	7	9,5	32,01	4	0,2	31 N	λ *Urs. Maj.*
	8	5,0	10	9	24,0	10	39,5	23,87	2	0,12	7½ N	γ *Leonis.*
27	13	24,2	2	14	39,5	15	52,5	45,06	1	—0,38	- - -	⊙ 1 L.
	15	34,5	2	16	51,0	18	5,0					⊙ 2 L.
	4	7,0	9	5	25,7	6	42,0	25,84	..	. . .	5½ N	☽ 1 L. 6h 46′ 9″,92 mean Time.
	13	57,5	9	16	3,0	18	4,4	3,19	1	+0,2	67½ S	κ *Navis.*
	56	54,0	9	58	9,0	59	21,0	8,97	2	0,37	½ N	*Regulus.*
	3	50,0	10	5	32,5	7	10,0	32,26	1	0,17	31 N	λ *Urs. Maj.*

In the YEAR M.DCCCXIV.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names* or *Characters* of the STARS AND PLANETS.
										+		
APRIL 28	17	11,5	2	18	27,0	19	40,0	32,63	1	0,87	- - -	☉ 1 L.
	19	22,0	2	20	38,5	21	51,0					☉ 2 L.
	1	28,0	10	2	45,0	4	0,0	45,28	..	...	2 N	☽ 1 L. 7h 39′ 25″,38 mean Time.
29	20	57,6	2	22	14,0	23	27,0	19,65	1	−0,28	- - -	☉ 1 L.
	23	9,0	2	24	25,5	25	39,0					☉ 2 L.
	13	58,0	9	16	3,0	18	5,0	3,0	2	+0,19	67½ S	α *Navis.*
	21	30,0	9	23	5,0	24	37,0	5,16	2	0,33	53 S	ψ *Navis.*
	56	54,0	9	58	9,0	59	22,0	9,22	2	0,17	¼ N	*Regulus.*
	3	50,0	10	5	32,0	7	10,0	32,01	2	−0,09	31 N	λ *Urs. Maj.*
	8	5,2	10	9	24,0	10	39,5	23,87	2	+0,08	7¼ N	γ *Leonis.*
	55	40,0	10	56	56,2	58	9,2	56,12	..	...	2¼ S	☽ 1 L. 8h 29′ 29″,33 mean Time.
30	24	46,0	2	26	2,0	27	15,0	7,75	1	0,40	- - -	☉ 1 L.
	26	57,0	2	28	13,7	29	27,0					☉ 2 L.
	21	30,0	9	23	5,0	24	37,0	5,16	1	0,0	53 S	ψ *Navis.*
	56	54,0	9	58	9,0	59	22,0	9,22	1	0,0	¼ N	*Regulus.*
	8	6,0	10	9	24,5	10	40,0	24,50	1	0,07	7¼ N	γ *Leonis.*
MAY 1	Wound up the Clock: Arc of Vibration 1°: 38′.											
	28	33,5	2	29	50,4	31	3,3	55,90	1	−0,15	- - -	☉ 1 L.
	30	45,2	2	32	2,0	33	15,0					☉ 2 L.
	8	6,0	10	9	25,0	10	40,0	24,77	1	+0,17	7¼ N	γ *Leonis.*
	35	14,0	10	37	36,0	39	59,0	35,89	..	...	71½ S	Æ *Rob. Carol.*
	47	59,0	10	50	15,0	52	26,4	15,20	..	...	44¼ N	β *Urs. Maj.*
	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.											
2	32	22,5	2	33	39,0	34	52,5	44,91	1	+ 0,31	- - -	☉ 1 L.
	34	34,5	2	35	51,0	37	4,0					☉ 2 L.
	3	50,2	10	5	33,0	7	10,5	32,77	..	...	31 N	λ *Urs. Maj.*
	8	6,0	10	9	26,0	10	40,0	24,77	..	...	7¼ N	γ *Leonis.*
	35	14,0	10	37	36,5	39	52,4	36,24	..	...	71¼ S	Æ *Rob. Carol.*
	47	59,0	10	50	15,5	52	27,0	15,60	..	...	44¼ N	β *Urs. Maj.*
	EMERSION of JUPITER'S *first* Satellite. Time by Clock (S.) 12h 44′ 30″. Mean Time 10h 4′ 57″,03. Planet high and clear: ☽ up: Observation good.											
	EMERSION of JUPITER'S *second* Satellite. Time by Clock (S.) 13h 49′ 50″. Mean Time 11h 10′ 6″,15. Planet sufficiently high and clear: ☽ up: Observation good.											
3	36	12,5	2	37	28,5	38	42,0	34,75	1	+ 0,34	- - -	☉ 1 L.
	38	23,5	2	39	41,0	40	54,0					☉ 2 L.
	56	55,0	9	58	10,0	59	22,5	10,09	1	0,33	¼ N	*Regulus.*
	3	51,0	10	5	33,0	7	10,0	32,75	1	0,10	31 N	λ *Urs. Maj.*
	8	6,3	10	9	25,4	10	40,5	24,97	1	0,40	7¼ N	γ *Leonis.*
4	40	2,5	2	41	19,0	42	32,5	24,85	1	0,2	- - -	☉ 1 L.
	42	14,0	2	43	31,0	44	44,0					☉ 2 L.
	56	55,0	9	58	10,5	59	22,0	10,22	..	...	¼ N	*Regulus.*
5	43	33,0	2	45	9,0	46	23,0	15,41	1	0,16	- - -	☉ 1 L.
	46	4,5	2	47	21,5	48	35,5					☉ 2 L.
	56	56,0	9	58	11,0	59	23,0	10,97	1	0,88	¼ N	*Regulus.*
	3	52,0	10	5	34,0	7	11,5	33,85	2	0,5	31 N	λ *Urs. Maj.*
	8	7,0	10	9	26,0	10	41,4	25,87	2	0,78	7¼ N	γ *Leonis.*
	35	15,3	10	37	37,0	39	53,5	37,09	3	0,32	71¼ S	Æ *Rob. Carol.*
	48	0,0	10	50	16,4	52	28,0	16,56	2	0,48	44¼ N	β *Urs. Maj.*

In the Y E A R M.DCCCXIV.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
										+		
MAY . 6	47	44,0	2	49	0,5	50	15,0	6,92	1	0,51	. . .	⊙ 1 L.
	49	56,0	2	51	13,0	52	27,0					⊙ 2 L.
	56	56,0	9	58	12,0	59	24,0	11,72	1	0,67	½ N	*Regulus.*
	3	52,0	10	5	34,5	7	12,0	34,96	1	0,4	31 N	λ *Urs. Maj.*
	8	7,0	10	9	26,0	10	42,0	26,02	1	0,2	7½ N	γ *Leonis.*
	.	.	10	37	38,0	39	54,0	37,87	1	0,75	71½ S	*Æ Rob. Carol.*
	48	0,5	10	50	17,3	52	28,0	17,12	1	0,47	44½ N	β *Urs. Maj.*
7	51	35,5	2	52	52,0	54	6,4	58,49	1	−0,03	. . .	⊙ 1 L.
	53	47,0	2	55	5,0	56	19,0					⊙ 2 L.
	56	56,0	9	58	12,0	59	24,5	11,84	..	. . .	½ N	*Regulus.*
8	55	27,0	2	56	44,3	57	59,0	50,79	1	+0,10	. . .	⊙ 1 L.
	57	40,0	2	58	57,4	0	11,0					⊙ 2 L.
	56	56,5	9	58	12,0	59	24,2	11,89	1	0,07	½ N	*Regulus.*
	3	52,6	10	5	34,5	7	12,1	34,51	2	0,17	31 N	λ *Urs. Maj.*
	8	8,0	10	9	27,0	10	42,5	26,90	2	0,43	7½ N	γ *Leonis.*
	35	16,5	10	37	38,0	39	54,0	38,01	2	0,0	71½ S	*Æ Rob. Carol.*
	48	1,0	10	50	17,0	52	28,0	17,10	2	0,03	44½ N	β *Urs. Maj.*
	2	38,0	11	3	57,3	5	16,0	57,18	..	. . .	8½ N	δ *Leonis.*
	6	31,6	11	7	59,4	9	23,0	59,21	..	. . .	19½ N	ζ *Urs. Maj.*
9	59	20,0	3	0	37,0	1	51,0	43,52	1	0,03	. . .	⊙ 1 L.
	1	32,7	3	2	50,0	4	4,4					⊙ 2 L.
	56	57,0	9	58	12,0	59	25,0	12,22	1	0,43	½ N	*Regulus.*
	3	53,0	10	5	35,0	7	12,5	34,88	1	0,39	31 N	λ *Urs. Maj.*
	.	.	10	9	27,0	10	42,5	27,15	1	0,0	7½ N	γ *Leonis.*
	.	.	10	40	12,0	41	25,5	11,93	..	. . .	28½ S	ν *Hydræ.*
	49	14,0	10	51	54,3	54	27,8	54,20	..	. . .	49½ N	α *Urs. Maj.*
	57	10,4	10	58	55,2	0	35,5	55,12	..	. . .	32½ N	↓ *Urs. Maj.*
	2	38,2	11	3	57,0	5	13,0	57,08	1	−0,03	8½ N	δ *Leonis.*

EMERSION of JUPITER'S *first* Satellite.
Time by Clock (S.) 15h 7′ 15″. Mean Time 11h 59′ 44″,54.
Planet low and tremulous: Telescope not steady: Observation indifferent in consequence.

										+		
10	3	15,4	3	4	30,5	5	45,3	37,05	1	0,23	. . .	⊙ 1 L.
	5	26,0	3	6	44,0	7	57,5					⊙ 2 L.
	38	56,0	10	40	12,3	41	26,0	12,40	1	0,4	28½ S	ν *Hydræ.*
	49	13,5	10	51	54,0	54	28,5	54,10	1	−0,03	49½ N	α *Urs. Maj.*
	57	10,5	10	58	55,0	0	36,0	55,17	1	+0,13	32½ N	↓ *Urs. Maj.*
	2	38,0	11	3	57,0	5	13,3	57,10	1	0,03	8½ N	δ *Leonis.*
12	11	1,3	3	12	19,0	13	53,5	25,49	2	−0,03	. . .	⊙ 1 L.
	13	14,0	3	14	32,0	15	47,0					⊙ 2 L.
	38	56,3	10	40	13,0	41	26,0	12,83	2	+0,16	28½ S	ν *Hydræ.*
	49	13,5	10	51	55,0	54	29,0	54,72	2	0,25	49½ N	α *Urs. Maj.*
	2	38,5	11	3	58,0	5	14,0	57,99	2	0,42	8½ N	δ *Leonis.*
	6	32,5	11	8	0,0	9	24,0	59,99	4	0,21	19½ N	ξ *Urs. Maj.*
13	14	55,5	3	16	14,0	17	29,0	20,83	1	0,24	. . .	⊙ 1 L.
	17	10,0	3	18	28,0	19	42,4					⊙ 2 L.
	38	56,4	10	40	13,0	41	26,0	12,85	1	0,03	28½ S	ν *Hydræ.*
	49	14,0	10	51	54,4	54	29,0	54,75	1	−0,03	49½ N	α *Urs. Maj.*
	57	10,5	10	58	55,5	0	36,0	55,42	1	0.20	32½ N	↓ *Urs. Maj.*
	2	39,0	11	3	58,0	5	14,0	58,02	1	+0,17	8½ N	δ *Leonis.*
	6	33,0	11	8	0,2	9	24,2	59,99	1	0,30	19½ N	ξ *Urs. Maj.*
14	18	51,0	3	20	9,5	21	23,4	16,33	1	−0,20	. . .	⊙ 1 L.
	21	5,0	3	22	24,0	23	39,0					⊙ 2 L.
	38	56,5	10	40	13,0	41	26,0	12,88	1	+0,03	28½ S	ν *Hydræ.*
	49	14,0	10	51	55,0	54	29,0	54,85	1	−0,17	49½ N	α *Urs. Maj.*
	57	10,4	10	58	56,0	0	36,2	55,67	1	+0,2	32½ N	↓ *Urs. Maj.*
	2	39,0	11	3	58,0	5	14,0	58,02	1	0,0	8½ N	δ *Leonis.*
	6	33,0	11	8	0,4	9	24,2	0,36	1	0,07	19½ N	ξ *Urs. Maj.*

In the YEAR M.DCCCXIV.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
										+		
MAY 15	22	48,0	3	24	6,0	25	20,2	12,8	1	0,17	- - -	☉ 1 L.
	25	2,0	3	26	20,0	27	34,5					☉ 2 L.
	38	56,0	10	40	13,0	41	26,5	12,8	1	0,0	28½ S	*ν Hydræ.*
	49	14,0	10	51	55,0	54	29,2	54,90	1	0,07	49½ N	*α Urs. Maj.*
	57	11,0	10	58	56,0	0	36,0	55,79	1	0,13	32½ N	*ψ Urs. Maj.*
	2	39,0	11	3	58,6	5	14,4	53,42	1	0,33	8½ N	*δ Leonis.*
	6	33,3	11	8	0,3	9	24,8	0,54	1	0,27	19½ N	*ξ Urs. Maj.*
	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.											
16	26	45,0	3	28	3,0	29	18,0	10,07	1	+ 0,27	- - -	☉ 1 L.
	28	59,0	3	30	17,3	31	32,0					☉ 2 L.
	Wound up the Clock: Arc of Vibration 1° 38′ 5″.											
17	30	42,0	3	32	0,0	33	15,8	7,41	1	— 0,16	- - -	☉ 1 L.
	32	56,0	3	34	15,0	35	30,0					☉ 2 L.
	22	14,0	11	23	40,0	25	2,0	39,85	..	...	44 S	*ξ Hydræ.*
	-	-	11	39	21,0	40	54,2	21,05	..	...	2½ N	*β Leonis.*
	-	-	11	43	46,3	15	49,0	46,16	..	...	41½ N	*γ Urs. Maj.*
	-	-	12	0	22,6	1	38,0	22,0	..	...	34½ S	*ε Corvi.*
	4	46,0	12	6	2,5	7	16,0	2,51	..	...	29½ S	*γ Corvi.*
	18	46,0	12	20	3,0	21	16,0	2,76	..	...	28½ S	*δ Corvi.*
	23	6,5	12	24	25,5	25	41,5	25,48	..	...	35½ S	*β Corvi.*
19	38	39,4	3	39	57,0	41	13,0	4,76	2	+0,32	- - -	☉ 1 L.
	40	53,0	3	42	12,5	43	27,5					☉ 2 L.
20	42	38,2	3	43	57,0	45	11,8	4,11	1	0,15	- - -	☉ 1 L.
	44	53,0	3	46	11,5	47	27,0					☉ 2 L.
	2	41,0	11	3	59,5	5	15,0	59,53	5	0,24	8½ N	*δ Leonis.*
	6	35,0	11	8	2,0	9	25,5	1,99	5	0,27	19½ N	*ξ Urs. Maj.*
	22	15,0	11	23	40,8	25	2,6	40,65	3	0,27	44 S	*ξ Hydræ.*
	38	5,0	11	39	22,0	40	35,0	21,75	3	0,30	2½ N	*β Leonis.*
	41	39,8	11	43	47,0	45	50,0	47,22	3	0,28	41½ N	*γ Urs. Maj.*
	59	3,5	12	0	23,0	1	39,0	22,90	3	0,33	34½ S	*ε Corvi.*
	4	46,6	12	6	3,5	7	17,0	3,40	3	0,29	29½ S	*γ Corvi.*
	18	47,0	12	20	3,5	21	17,0	3,40	3	0,28	28½ S	*δ Corvi.*
	23	7,0	12	24	26,4	25	42,4	26,33	3	0,28	35½ S	*β Corvi.*
21	46	37,7	3	47	56,3	49	12,0	3,94	1	0,03	- - -	☉ 1 L.
	48	53,0	3	50	11,5	51	27,0					☉ 2 L.
	59	4,0	12	0	23,3	1	39,4	23,28	1	0,4	34½ S	*ε Corvi.*
	4	47,0	12	6	3,8	7	17,5	3,78	1	0,4	29½ S	*γ Corvi.*
22	50	38,5	3	51	57,2	53	12,0	4,56	1	0,32	- - -	☉ 1 L.
	52	53,5	3	54	13,0	55	28,0					☉ 2 L.
	6	55,8	11	8	3,0	9	26,4	2,91	2	0,45	19½ N	*ξ Urs. Maj.*
	22	15,4	11	23	41,0	25	3,0	40,05	2	0,17	44 S	*ξ Hydræ.*
	38	5,2	11	39	22,3	40	35,5	22,08	2	0,17	2½ N	*β Leonis.*
	41	40,5	11	43	47,5	45	50,6	47,84	2	0,32	41½ N	*γ Urs. Maj.*
	59	4,0	12	0	23,6	1	39,5	23,45	1	0,13	34½ S	*ε Corvi.*
	4	47,3	12	6	4,0	7	18,0	4,08	1	0,33	29½ S	*γ Corvi.*
	18	47,6	12	20	4,0	21	17,4	4,0	2	0,25	28½ S	*δ Corvi.*
	23	7,5	12	24	27,0	25	43,0	26,86	2	0,25	35½ S	*β Corvi.*
	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.											
23	54	39,0	3	55	58,0	57	14,3	5,70	1	+ 0,34	- - -	☉ 1 L.
	56	54,2	3	58	13,5	59	29,0					☉ 2 L.
	22	16,0	11	23	41,5	25	3,6	41,5	1	0,57	44 S	*ξ Hydræ.*
	38	6,0	11	39	23,0	40	36,5	22,83	1	0,77	2½ N	*β Leonis.*

In the YEAR M.DCCCXIV.

DAY of the MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.		*Names or Characters* of the STARS AND PLANETS.
										″			
MAY 23	4	48,0	12	6	4,4	7	18,3	4,53	1	0,47	29½	S	γ *Corvi.*
	18	48,0	12	20	4,4	21	18,0	4,46	1	0,47	28¾	S	δ *Corvi.*
	23	8,0	12	24	27,7	25	43,8	27,58	1	0,73	35½	S	β *Corvi.*
24	58	40,0	3	59	59,5	1	15,4						☉ 1 L.
	0	56,0	4	2	15,0	3	30,0	7,01	1	—0,01	-	- -	☉ 2 L.
	22	16,0	11	23	42,0	25	4,0	41,85	1	+0,3	44	S	ξ *Hydræ.*
	38	6,5	11	39	23,0	40	36,2	22,86	1	0,13	2¼	N	β *Leonis.*
	41	41,0	11	43	48,5	45	51,2	48,56	1	0,13	41¼	N	γ *Urs. Maj.*
	59	4,3	12	0	24,0	1	40,0	23,85	2	0,4	34¼	S	ε *Corvi.*
	4	48,0	12	6	4,6	7	18,0	4,55	1	—0,03	29½	S	γ *Corvi.*
	18	48,0	12	20	5,0	21	18,0	4,78	1	0,20	28¾	S	δ *Corvi.*
	23	8,3	12	24	28,0	25	44,5	27,98	1	0,43	35½	S	β *Corvi.*
	30	50,0	12	-	-	33	15,0	3,95	..	...	15¼	S	γ *Virginis.*
25	2	43,0	4	4	2,2	5	17,2						☉ 1 L.
	4	58,0	4	6	17,0	7	33,0	9,43	1	+0,52	-	- -	☉ 2 L.
	22	16,3	11	23	42,5	25	4,4	42,27	1	0,4	44	S	ξ *Hydræ.*
26	6	45,3	4	8	4,0	9	19,5						☉ 1 L.
	9	0,0	4	10	19,0	11	36,9	11,66	1	—0,07	-	- -	☉ 2 L.
27	10	47,2	4	12	7,2	13	22,0						☉ 1 L.
	13	3,5	4	14	23,0	15	39,0	14,69	1	+0,33	-	- -	☉ 2 L.
28	14	51,5	4	16	10,5	17	27,0						☉ 1 L.
	17	7,0	4	18	26,5	19	43,0	18,62	1	0,73	-	- -	☉ 2 L.
	22	33,3	12	23	49,0	25	0,5	48,74	..	...		☽	☽ 1 L. 8h 1′ 56″,27 mean Time.
	30	52,0	12	32	5,5	33	16,8	5,67	4	0,48	13¼	S	γ *Virginis.*
29	18	55,0	4	20	14,3	21	30,6						☉ 1 L.
	21	11,0	4	22	31,0	23	47,0	22,56	1	0,24	-	- -	☉ 2 L.
30	22	59,5	4	24	19,0	25	35,5						☉ 1 L.
	25	16,0	4	26	35,0	27	52,0	27,0	1	0,34	-	- -	☉ 2 L.
	23	10,5	12	24	20,0	25	47,0	30,16	6	0,35	35½	S	β *Corvi.*
	30	53,0	12	32	6,5	33	17,6	6,62	2	0,47	13¼	S	γ *Virginis.*
	43	26,0	12	45	41,2	47	51,0	41,2	..	...	44	N	ε *Urs. Maj.*
	14	6,0	13	16	17,5	18	23,0	17,35	..	...	43	N	ξ *Urs. Maj.*
31	27	4,0	4	28	23,3	29	40,2						☉ 1 L.
	29	20,0	4	30	40,0	31	56,5	31,70	1	0,10	-	- -	☉ 2 L.
	22	19,0	11	23	45,0	25	7,0	44,85	6	0,45	44	S	ξ *Hydræ.*
	38	10,0	11	39	26,3	40	39,5	26,28	7	0,49	2¼	N	β *Leonis.*
	41	44,6	11	43	52,0	45	54,2	51,97	7	0,48	41¼	N	γ *Urs. Maj.*
	59	7,5	12	0	27,0	1	43,0	26,90	7	0,44	34¼	S	ε *Corvi.*
	4	51,0	12	6	8,0	7	21,8	79,5	7	0,44	29¼	S	γ *Corvi.*
	18	51,6	12	20	7,8	21	21,0	7,80	1	0,4	28¼	S	δ *Corvi.*
	-	-	12	24	31,0	25	47,7	31,3	1	0,85	35½	S	β *Corvi.*
	30	53,6	12	32	7,0	33	17,7	7,05	1	0,4	13¼	S	γ *Virginis.*
	43	26,4	12	45	41,8	47	51,6	41,75	1	0,53	44	N	ε *Urs. Maj.*
	14	6,7	13	16	17,7	18	24,0	17,87	1	0,63	43	N	ξ *Urs. Maj.*
JUNE 1	31	10,0	4	32	29,0	33	46,3						☉ 1 L.
	33	26,0	4	34	46,0	37	2,0	87,69	1	0,93	-	- -	☉ 2 L.

Wound up the Clock: Arc of Vibration 1°: 39′.

										+			
	38	10,5	11	39	27,0	40	40,0	26,94	1	0,57	2¼	N	β *Leonis.*
	41	45,3	11	43	53,0	45	54,8	52,85	1	0,77	41¼	N	γ *Urs. Maj.*
	59	8,3	12	0	28,0	1	44,0	27,88	1	0,97	34¼	S	ε *Corvi.*
	4	52,0	12	6	8,6	7	23,5	8,93	1	0,77	29¼	S	γ *Corvi.*
	43	27,0	12	45	42,2	47	52,2	42,25	1	0,53	44	N	ε *Urs. Maj.*
	14	7,7	13	16	18,6	18	25,0	18,82	1	0,97	43	N	ξ *Urs. Maj.*

In the YEAR M.DCCCXIV.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
										+		
JUNE 2	35	15,5	4	36	35,2	37	52,0	43,63	1	0,7	- - -	☉ 1 L.
	37	32,2	4	38	52,0	40	8,5					☉ 2 L.
	38	11,0	11	39	27,7	40	40,8	27,59	1	0,67	23 N	β *Leonis.*
	41	45,5	11	43	53,4	45	55,3	53,23	1	0,37	41½ N	γ *Urs. Maj.*
	59	9,0	12	0	28,4	1	44,6	28,38	1	0,57	31½ S	ε *Corvi.*
	4	52,3	12	6	9,0	7	23,6	9,23	1	0,27	29½ S	γ *Corvi.*
	18	53,0	12	20	9,0	21	22,6	9,15	2	0,67	28½ S	δ *Corvi.*
	23	13,0	12	24	32,0	25	49,0	32,28	2	0,63	35½ S	β *Corvi.*
	30	54,6	12	32	8,5	33	19,0	8,11	2	0,63	13½ S	γ *Virginis.*
	43	27,7	12	45	42,8	47	52,5	42,80	1	0,53	44 N	ε *Urs. Maj.*
	14	8,0	13	16	19,4	18	25,7	19,47	1	0,60	43 N	ζ *Urs. Maj.*
3	39	21,3	4	40	41,4	41	58,0	49,73	1	0,3	- - -	☉ 1 L.
	41	38,2	4	42	58,0	44	15,0					☉ 2 L.
	38	11,8	11	39	28,2	40	41,4	28,19	1	0,63	24 N	β *Leonis.*
	41	46,0	11	43	54,0	45	56,0	53,88	1	0,60	41½ N	γ *Urs. Maj.*
	59	10,0	12	0	29,0	1	45,0	29,03	1	0,67	34½ S	ε *Corvi.*
	4	53,0	12	6	10,0	7	24,0	10,0	1	0,7	29½ S	γ *Corvi.*
	18	53,5	12	20	10,0	21	23,0	9,90	1	0,63	28½ S	δ *Corvi.*
	23	13,4	12	24	32,6	25	49,4	32,78	1	0,47	35½ S	β *Corvi.*
	30	55,4	12	32	9,0	33	20,0	9,11	1	0,78	13½ S	γ *Virginis.*
	43	28,0	12	45	43,2	47	53,0	43,2	1	0,4	44 N	ε *Urs. Maj.*
	14	8,8	13	16	19,8	18	26,0	19,95	1	0,5	43 N	ζ *Urs. Maj.*
4	43	28,0	4	44	48,0	46	5,0	56,43	1	0,60	- - -	☉ 1 L.
	45	45,0	4	47	5,0	48	21,0					☉ 2 L.
	41	47,0	11	43	54,6	45	57,0	54,63	1	0,87	41½ N	γ *Urs. Maj.*
	59	11,0	12	0	29,7	1	46,0	29,88	1	0,9	34½ S	ε *Corvi.*
	4	53,8	12	6	10,5	7	24,5	10,59	1	0,6	29½ S	γ *Corvi.*
	23	14,0	12	24	33,5	25	50,0	33,53	1	0,7	35½ S	β *Corvi.*
	30	56,0	12	32	9,5	33	20,4	9,61	1	0,5	13½ S	γ *Virginis.*
	43	28,7	12	45	44,0	47	54,0	44,02	1	0,83	44 N	ε *Urs. Maj.*
	14	9,4	13	16	20,4	18	26,5	20,52	1	0,57	43 N	ζ *Urs. Maj.*
5	47	35,0	4	48	55,5	50	12,0	3,69	1	0,66	- - -	☉ 1 L.
	49	52,2	4	51	12,0	52	29,0					☉ 2 L.
	38	13,0	11	39	29,0	40	42,6	29,19	2	0,54	24 N	β *Leonis.*
	41	47,4	11	43	55,0	45	57,3	55,0	1	0,34	41½ N	γ *Urs. Maj.*
	59	11,3	12	0	30,0	1	46,3	30,18	1	0,30	34½ S	ε *Corvi.*
	4	54,0	12	6	11,0	7	25,0	11,0	1	0,67	29½ S	γ *Corvi.*
	18	55,0	12	20	11,0	21	24,0	11,0	2	0,58	28½ S	δ *Corvi.*
	23	14,7	12	24	34,0	25	50,4	34,06	1	0,53	35½ S	β *Corvi.*
	30	57,0	12	32	10,0	33	20,7	10,19	1	0,60	13½ S	γ *Virginis.*
	43	29,8	12	45	44,5	47	54,5	44,67	1	0,43	44 N	ε *Urs. Maj.*
	14	10,0	12	16	21,0	18	27,0	21,10	1	0,57	43 N	ζ *Urs. Maj.*
	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.											
6	51	42,2	4	53	2,0	54	20,0	10,85	1	+ 0,56	- - -	☉ 1 L.
	53	59,0	4	55	19,5	56	36,3					☉ 2 L.
	4	55,0	12	6	12,0	7	25,5	11,90	1	0,83	29½ S	γ *Corvi.*
	13	41,4	12	16	18,3	18	49,0	18,39	..	...	75½ S	α *Crucis.*
	23	15,0	12	24	35,0	25	51,4	34,88	1	0,77	35½ S	β *Corvi.*
	29	26,4	12	31	16,0	33	1,0	15,99	..	...	61 S	μ *Centauri.*
	43	30,2	12	45	45,0	47	55,0	45,15	1	0,47	44 N	ε *Urs. Maj.*
	14	6,0	13	15	21,0	16	33,2	21,08	..	...	23½ S	Spicæ *Virg.*
	- - -		13	40	9,0	41	59,0	9,0	..	...	37½ N	η *Urs. Maj.*
7	55	50,0	4	57	10,0	58	27,3	18,61	1	0,56	- - -	☉ 1 L.
	58	7,2	4	59	27,0	0	44,0					☉ 2 L.
	50	19,6	12	0	31,6	1	48,0	31,78	1	0,8	34½ S	ε *Corvi.*
	4	56,0	12	6	12,4	7	26,2	12,50	1	0,7	29½ S	γ *Corvi.*
	13	42,0	12	16	19,0	18	49,5	19,01	1	016	75½ S	α *Crucis.*
	23	16,0	12	24	35,4	25	52,0	35,48	1	0,67	35½ S	β *Corvi.*
	45	40,0	12	47	16,2	48	47,0	15,97	..	...	20½ N	*Cor. Carol.*
	51	37,0	12	52	52,0	54	4,3	52,09	..	...	1½ S	ε *Virginis.*

In the YEAR M.DCCCXIV.

DAY of the MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
JUNE 7	14	6,8	13	15	21,7	16	34,0	21,83	1	+ 0,77	23¼ S	*Spicæ.*
	"	"	13	40	9,5	41	59,8	9,65	1	0,65	57½ N	*η Urs. Maj.*
8	59	58,0	5	1	17,8	2	35,4	26,67	1	0,56	" " "	⊙ 1 L.
	2	15,0	5	3	33,4	4	52,3					⊙ 2 L.
	29	28,0	12	31	17,0	33	2,0	17,14	2	0,6	61 S	*μ Centauri.*
	51	37,5	12	52	53,0	54	5,0	53,06	1	0,73	1½ S	*ε Virginis.*
	14	7,6	13	15	22,7	16	34,5	22,65	1	0,77	23½ S	*Spicæ.*
	"	"	13	40	10,2	42	0,5	10,35	1	0,7	57½ N	*η Urs. Maj.*
	44	30,0	13	45	48,0	47	3,0	48,06	..	. . .	6½ N	*η Bootis.*
9	4	6,3	5	5	26,2	6	43,5	34,97	1	0,40	" " "	⊙ 1 L.
	6	22,5	5	7	43,7	9	0,5					⊙ 2 L.
	59	13,5	12	0	32,7	1	49,0	32,73	2	0,46	34½ S	*ε Corvi.*
	4	56,5	13	6	13,0	7	27,0	13,13	2	0,32	29½ S	*γ Corvi.*
	29	28,7	12	31	17,5	33	2,8	17,76	1	0,67	61 S	*μ Centauri.*
	45	41,8	12	47	17,5	48	48,3	17,26	1	0,63	26½ N	*Cor. Carol.*
	51	38,0	12	52	53,4	54	5,5	53,34	1	0,47	1½ S	*ε Virginis.*
	14	8,5	13	15	23,0	16	35,0	23,15	1	0,57	23½ S	*Spicæ.*
	38	15,0	13	40	10,7	42	1,0	10,55	1	0,5	57½ N	*η Urs. Maj.*
	44	30,4	13	45	48,3	47	3,5	48,44	1	0,4	6½ N	*η Bootis.*
10	8	15,0	5	9	35,0	10	52,3	43,59	1	0,52	" " "	⊙ 1 L.
	19	32,0	5	11	52,2	13	9,0					⊙ 2 L.
	13	43,4	12	16	20,3	18	51,3	20,46	1	0,4	75½ S	*α Crucis.*
	29	29,0	12	31	18,0	33	3,0	18,14	..	. . .	61 S	*μ Centauri.*
	34	34,6	12	36	56,3	39	10,8	55,97	1	0,43	71½ S	*β Crucis.*
	15	42,0	12	47	17,3	48	48,4	17,24	1	0,37	26½ N	*Cor. Carol.*
	51	38,4	12	52	54,0	54	6,0	53,86	1	0,5	1½ S	*ε Virginis.*
	14	8,8	13	15	23,2	16	35,3	23,40	1	0,27	23½ S	*Spicæ.*
	38	15,6	13	40	10,8	42	1,4	10,85	1	0,37	57½ N	*η Urs. Maj.*

EMERSION of JUPITER'S *first* Satellite.
Time by Clock (S.) 13h 48′ 30″,5. Mean Time 8h 35′ 10″,97.
Planet sufficiently high, and clear: Observation good.

11	12	22,5	5	13	43,0	15	0,0	31,85	1	" 0,14	" " "	⊙ 1 L.
	14	40,9	5	16	0,5	17	18,0					⊙ 2 L.
	13	43,3	12	16	20,4	18	51,5	20,54	1	+0,07	75½ S	*α Crucis.*
	29	29,3	12	31	18,0	33	3,0	18,21	1	0,10	61 S	*μ Centauri.*
	34	34,5	12	36	56,0	39	10,5	55,72	1	—0,23	71½ S	*β Crucis.*
	45	42,0	12	47	17,0	48	48,0	16,99	1	0,23	26½ N	*Cor. Carol.*
	51	38,0	12	52	53,7	54	6,0	53,61	1	0,23	1½ S	*ε Virginis.*
	38	16,0	13	40	11,0	42	1,8	11,4	1	0,07	57½ N	*η Urs. Maj.*
12	16	31,4	5	17	59,0	19	8,6	0,61	1	+0,16	" " "	⊙ 1 L.
	18	49,0	5	20	9,0	21	27,0					⊙ 2 L.
	29	28,8	12	31	18,0	33	3,3	18,16	1	—0,07	61 S	*μ Centauri.*
	34	31,5	12	36	56,0	"	"	55,95	1	0,10	71½ S	*β Crucis.*
	45	42,2	12	47	17,0	48	48,0	17,04	1	+0,07	26½ N	*Cor. Carol.*
	51	38,0	12	52	54,0	54	6,0	53,76	1	0,10	1½ S	*ε Virginis.*
	14	9,0	13	15	24,0	16	35,0	23,78	2	0,12	23½ S	*Spicæ Virg.*
	38	16,0	13	40	11,0	42	1,5	11,15	1	—0,10	57½ N	*η Urs. Maj.*
	44	30,8	13	45	49,0	47	3,5	48,89	3	+0,12	6½ N	*η Bootis.*
13	20	40,5	5	22	1,3	23	18,3	9,88	1	0,37	" " "	⊙ 1 L.
	22	39,2	5	24	18,3	25	36,0					⊙ 2 L.
	14	9,0	13	15	24,2	16	35,2	23,93	1	0,13	23½ S	*Spicæ.*
16	33	10,2	5	34	31,3	35	47,8	39,50	..	. . .	" " "	⊙ 1 L.
	35	27,7	5	36	48,0	38	5,0					⊙ 2 L.
	34	36,0	12	36	57,7	39	13,0	57,65	4	0,48	71½ S	*β Crucis.*
	45	44,0	12	47	19,0	48	50,0	18,99	4	0,48	26½ N	*Cor. Carol.*
	51	40,0	12	52	55,4	54	8,0	55,46	4	0,45	1½ S	*ε Virginis.*
	14	10,5	13	15	26,5	16	37,0	25,46	3	0,51	23½ S	*Spicæ Virg.*

In the YEAR M.DCCCXIV.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S.	No. of Days	Rate of Clock.	Zenith Distance.	*Names* or *Characters* of the STARS AND PLANETS.
JUNE 16	Wound up the Clock: Arc of Vibration 1°: 39′,5.											
	Emersion of Jupiter's *third* Satellite. Time by Clock (S.) 13h 28′ 40″,5. Mean Time 7h 51′ 46″,05. Planet sufficiently high, and clear: Observation good.											
	38	18,0	13	40	13,0	42	3,0	19,90	4	0,46	37½ N	♈ *Urs. Maj.*
	44	32,4	13	45	50,5	47	5,2	50,46	4	0,40	6½ N	♈ *Bootis.*
17	37	19,4	5	38	40,0	39	57,4	48,56	..	. . .	. . .	☉ 1 L.
	39	36,5	5	40	57,0	42	14,4		..	. . .		☉ 2 L.
18	41	29,3	5	42	49,0	44	6,0	57,53	1	−0,46	. . .	☉ 1 L.
	43	46,0	5	45	6,0	46	21,0					☉ 2 L.
19	45	38,6	5	46	59,3	48	16,2	7,89	1	+0,40	. . .	☉ 1 L.
	47	56,2	5	49	16,0	50	34,0					☉ 2 L.
20	49	48,0	5	51	8,5	52	25,7	17,41	1	−0,12	. . .	☉ 1 L.
	52	5,6	5	53	26,0	54	44,0					☉ 2 L.
	14	11,0	13	15	25,5	16	37,0	25,53	4	+0,04	23½ S	*Spicæ Virg.*
	38	18,0	13	40	13,4	42	3,5	13,27	4	0,08	37½ N	♈ *Urs. Maj.*
21	53	56,6	5	55	16,7	56	25,0	26,41	1	−0,7	. . .	☉ 1 L.
	56	15,8	5	57	36,2	58	52,8					☉ 2 L.
22	58	7,6	5	59	28,0	0	45,2	36,96	1	+0,95	. . .	☉ 1 L.
	0	25,0	6	1	46,3	3	3,0					☉ 2 L.
	22	9,2	14	23	47,0	25	22,0	47,23	..	. . .	54½ S	
23	2	18,0	6	3	38,2	4	55,3	46,71	1	0,15	. . .	☉ 1 L.
	4	35,0	6	5	55,0	7	12,5					☉ 2 L.
24	6	28,0	6	7	48,6				..	. . .	. . .	☉ 1 L.
	8	45,2										☉ 2 L.
25	10	38,4	6	11	58,2	13	16,0	7,26	1	0,87	. . .	☉ 1 L.
	12	55,0	6	14	16,0	15	33,3					☉ 2 L.
	5	56,2	14	7	14,0	8	28,0	13,85	..	. . .	7½ N	*Arcturus.*
26	14	48,3	6	16	8,8	17	26,0	17,55	1	0,99	. . .	☉ 1 L.
	17	5,5	6	18	26,0	19	44,6					☉ 2 L.
	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.											
27	18	57,5	6	20	18,0	21	35,2	26,73	1	+0,08	. . .	☉ 1 L.
	21	15,0	6	22	35,0	23	53,0					☉ 2 L.
28	23	6,5	6	24	27,0	25	44,7	35,85	1	0,12	. . .	☉ 1 L.
	25	24,0	6	26	44,4	28	1,8					☉ 2 L.
	.	.	13	40	15,8	42	6,0	15,90	12	0,24	37½ N	♈ *Urs. Maj.*
	44	35,0	13	45	53,0	47	8,6	53,06	12	0,22	6½ N	♈ *Bootis.*
29	27	15,5	6	28	35,4	29	52,2	44,30	1	−0,35	. . .	☉ 1 L.
	29	33,0	6	30	53,0	32	10,0					☉ 2 L.
30	31	24,0	6	32	45,0	34	2,0	53,38	1	0,58	. . .	☉ 1 L.
	33	41,4	6	35	2,2	36	19,0					☉ 2 L.
JULY 1	35	32,8	6	36	53,0	38	10,2	1,75	1	+0,07	. . .	☉ 1 L.
	37	50,0	6	39	10,6	40	27,5					☉ 2 L.

In the YEAR M.DCCCXIV.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
JULY 1	Wound up the Clock: Arc of Vibration 1°: 38′,5.											
	38	20,0	13	40	15,0	42	6,2	15,25	3	— 0,1	37¼ N	*η Urs. Maj.*
	44	35,6	13	45	51,0	47	9,0	53,96	3	+0,29	6¼ N	*η Bootis.*
	5	57,2	14	7	15,0	8	30,0	15,08	6	0,22	7¼ N	*Arcturus.*
	35	33,0	14	36	56,0	38	16,2	55,90	..	. . .	15 N	*ε Bootis.*
2	39	41,2	6	41	1,6	42	18,6	10,01	1	0,16	- - -	☉ 1 L.
	41	58,2	6	43	18,6	44	35,5					☉ 2 L.
3	43	49,2	6	45	10,0	46	27,0	18,46	1	0,55	- - -	☉ 1 L.
	46	7,0	6	47	27,0	48	44,2					☉ 2 L.
	44	37,0	13	45	54,5	47	10,0	54,81	2	0,41	6¼ N	*η Bootis.*
	5	57,8	14	7	16,0	8	31,0	15,98	2	0,43	7¼ N	*Arcturus.*
	35	34,0	14	36	57,2	38	17,0	57,39	2	0,50	15 N	*ε Bootis.*
4	47	57,5	6	49	18,0	50	34,0	26,42	1	0,46	- - -	☉ 1 L.
	-	-	6	51	35,0	52	52,0					☉ 2 L.
5	52	5,5	-	-	-	54	42,5	34,43	1	0,71	- - -	☉ 1 L.
	54	23,0	6	55	43,0	57	0,0					☉ 2 L.
6	56	13,0	6	57	34,0	58	50,2	42,06	1	0,73	- - -	☉ 1 L.
	58	30,8	6	59	50,3	1	7,7					☉ 2 L.
	5	59,0	14	7	17,2	8	33,0	17,38	3	0,49	7¼ N	*Arcturus.*
7	0	20,2	7	1	41,0	2	57,7	49,47	1	0,81	- - -	☉ 1 L.
	2	38,0	7	3	57,6	5	15,0					☉ 2 L.
8	4	28,0	7	5	48,0	7	5,0	56,41	1	0,64	- - -	☉ 1 L.
	6	45,0	7	8	4,5	9	21,6					☉ 2 L.
9	8	35,0	7	9	54,5	11	11,0	2,92	1	0,61	- - -	☉ 1 L.
	10	51,5	7	12	11,2	13	28,0					☉ 2 L.
10	12	40,5	7	14	0,6	15	17,0	8,74	1	0,32	- - -	☉ 1 L.
	14	57,0	7	16	17,0	17	34,0					☉ 2 L.
11	16	47,0	7	18	6,5	19	23,0	14,79	1	0,85	- - -	☉ 1 L.
	19	3,4	7	20	23,0	21	39,5					☉ 2 L.
12	20	51,5	7	22	11,2	23	27,0	19,09	1	0,40	- - -	☉ 1 L.
	23	8,0	7	24	27,0	Cloudy.						☉ 2 L.
13	24	58,0	7	26	13,2	27	32,0	- -	..	. . .	- - -	☉ 1 L.
	27	10,0	-	-	-	-	-					☉ 2 L.
16	Wound up the Clock: Arc of Vibration 1° 39′.											

SOLAR ECLIPSE (*Partial.*)

	Time by Clock.	*Apparent Time.*
Beginning of the Eclipse	6h 3′ 39″.	22h 20′ 15″,63.
End (Cloudy.)		

Hazy at the beginning, but the Observation was certain to about 2 seconds;—Clouds and haze covered the disc during the greater part of the Eclipse;—the Transit, however, was observed very correctly.

17	41	13,5	7	42	33,5	-	-	41,25	..	. . .	- - -	☉ 1 L. ☉ 2 L. } ☉ eclipsed partially.
	43	29,6	7	44	49,0	46	17,5					
	41	50,3	7	43	9,5	44	17,5	- -	..	. . .	- - -	*Western Cusp.*
18	45	16,0	7	46	35,5	47	51,0	43,05	..	. . .	- - -	☉ 1 L.
	47	31,3	7	48	51,0	50	7,0					☉ 2 L.

In the YEAR M.DCCCXIV.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock. +	Zenith Distance.	Names or Characters of the STARS AND PLANETS.
JULY 19	49	18,5	7	50	36,4	-	-	45,09	1	0,64	- - -	☉ 1 L.
	51	33,0	7	52	53,3	54	9,0					☉ 2 L.
	-	-	15	54	54,0	56	9,0	54,03	..	...	32½ S	β *Scorpionis.*
	8	48,4	16	10	9,5	11	27,5	9,54	..	...	33½ S	π *Scorpionis.*
	16	55,0	16	18	16,5	19	35,0	16,56	..	...	39¼ S	*Antares.*
20	53	20,2	7	54	39,0	55	55,0	46,59	1	0,70	- - -	☉ 1 L.
	55	35,0	7	56	54,5	58	9,5					☉ 2 L.
21	57	22,2	7	58	40,0	59	56,0	48,02	1	1,23	- - -	☉ 1 L.
	59	37,0	8	0	55,6	2	11,0					☉ 2 L.
22	1	22,7	8	2	41,5	3	56,3	48,85	1	1,23	- - -	☉ 1 L.
	3	38,3	8	4	56,0	6	12,0					☉ 2 L.
	54	10,0	15	35	24,0	36	35,2	24,04	..	...	6½ S	κ *Serpentis.*
23	5	23,0	8	6	42,0	7	57,0	49,19	1	1,24	- - -	☉ 1 L.
	7	38,3	8	8	56,5	10	12,0					☉ 2 L.
24	9	22,0	8	10	41,0	11	56,5	48,29	1	0,60	- - -	☉ 1 L.
	11	37,0	8	12	56,0	14	11,0					☉ 2 L.
	48	20,5	15	49	40,0	50	55,8	39,86	5	0,61	35½ S	δ *Scorpionis.*
	16	59,0	16	18	20,0	19	39,0	20,31	5	0,76	39¼ S	*Antares.*
25	13	21,4	8	14	39,0	15	54,0	46,44	1	0,25	- - -	☉ 1 L.
	15	35,0	8	16	54,0	18	9,0					☉ 2 L.
26	17	19,4	8	18	37,2	19	52,4	44,53	1	0,58	- - -	☉ 1 L.
	19	33,4	8	20	52,0	22	6,5					☉ 2 L.
27	21	16,6	8	22	35,0	23	50,0	42,14	1	0,92	- - -	☉ 1 L.
	23	31,0	8	24	50,0	26	4,0					☉ 2 L.
	25	46,0	15	27	9,0	28	28,0	8,96	5	0,56	14¼ N	α *Coron. Boreal.*
	48	23,0	15	49	42,0	50	58,2	42,09	3	0,77	35½ S	δ *Scorpionis.*
	53	41,0	15	54	59,0	56	14,0	59,03	8	0,62	32½ S	β *Scorpionis.*
	-	-	16	4	57,0	6	8,0	57,08	8	0,67	16½ S	δ *Ophiuchi.*
	17	0,3	16	18	22,0	19	40,2	21,99	8	0,67	39¼ S	*Antares.*
	21	15,2	16	22	34,0	23	50,0	- -	..	...	9 N	λ *Ophiuchi.*
28	25	14,3	8	26	32,0	27	47,0	39,29	1	1,15	- - -	☉ 1 L.
	27	28,0	8	28	46,7	30	1,5					☉ 2 L.
	34	14,0	15	35	28,0	36	39,0	27,99	6	0,66	6½ S	κ *Serpentis.*
	48	23,5	15	49	43,0	50	59,2	42,99	1	0,83	35½ S	δ *Scorpionis.*
	53	42,0	15	55	0,0	56	15,0	0,03	1	1,0	32½ S	β *Scorpionis.*
	3	44,0	16	4	58,0	6	9,0	57,99	1	1,0	16½ S	δ *Ophiuchi.*
	8	55,0	16	19	16,0	11	34,0	16,06	9	0,73	38½ S	σ *Scorpionis.*
	17	1,0	16	18	23,2	19	42,0	23,16	1	0,9	39¼ S	*Antares.*
29	29	9,0	8	30	28,3	31	43,5	35,41	1	0,62	- - -	☉ 1 L.
	31	24,4	8	32	43,0	33	58,0					☉ 2 L.
	34	15,0	15	35	29,0	36	40,2	29,04	1	1,07	6 S	κ *Serpentis.*
	48	24,0	15	49	43,8	51	0,0	43,59	1	0,6	35½ S	δ *Scorpionis.*
	53	43,0	15	55	1,0	56	16,0	1,03	1	1,0	32½ S	β *Scorpionis.*

EMERSION of JUPITER's *third* Satellite.
Time by Clock (S.) 16h 11′ 11″,5. Mean Time 7h 44′ 26″,10.
Planet low and *tremulous*: Moonlight: Observation otherwise good.

	17	2,0	16	18	24,3	19	43,0	24,21	1	1,03	39¼ S	*Antares.*
30	33	6,6	8	34	24,5	35	39,4	31,41	1	1,2	- - -	☉ 1 L.
	35	20,2	8	36	38,5	37	53,0					☉ 2 L.
	34	16,0	15	35	29,5	36	40,6	29,64	1	0,83	6½ S	κ *Serpentis.*
	46	39,0	15	48	0,5	49	19,0	0,56	..	...	38½ S	π *Scorpionis.*
	53	44,0	15	55	2,0	56	16,7	1,95	1	0,9	32½ S	β *Scorpionis.*

In the YEAR M.DCCCXIV.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters of the* STARS AND PLANETS.
JULY 30	EMERSION of JUPITER'S *second* Satellite. Time by Clock (S.) 16h 20′ 3″,5. Mean Time 7h 49′ 19″,74. Planet very low, and tremulous: strong Moonlight: Observation otherwise good.											
31	37	2,2	8	38	19,5	39	34,5	26,71	1	+1,1	- - -	⊙ 1 L.
	39	15,4	8	40	34,0	41	48,4					⊙ 2 L.
	34	16,5	15	35	30,0	36	41,6	30,26	1	0,67	6½ S	*α Serpentis.*
	46	39,7	15	48	1,6	49	19,6	1,44	1	0,8	35½ S	*π Scorpionis.*
	53	45,0	15	55	3,0	56	17,5	2,90	1	0,93	32½ S	*β Scorpionis.*
	3	47,0	16	5	0,5	6	11,5	0,57	3	0,89	16½ S	*δ Ophiuchi.*
	8	57,0	16	10	18,0	11	37,0	18,31	3	0,78	38½ S	*σ Scorpionis.*
	17	4,0	16	18	26,0	19	44,7	25,99	3	0,95	39½ S	*Antares.*
	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.											
AUGUST 1	40	57,0	8	42	15,0	43	29,5	21,59	1	+1,28	- - -	⊙ 1 L.
	43	10,5	8	44	28,4	45	43,0					⊙ 2 L.
	34	17,0	15	35	31,0	36	42,6	31,14	1	0,97	6½ S	*α Serpentis.*
	48	27,0	15	49	46,4	51	3,0	46,49	3	0,96	35½ S	*δ Scorpionis.*
	53	46,0	15	55	3,6	56	18,0	3,58	1	0,7	32½ S	*β Scorpionis.*
	3	48,0	16	5	1,6	6	12,5	1,65	1	1,03	16½ S	*δ Ophiuchi.*
	8	58,0	16	10	19,0	11	38,0	19,32	1	1,0	38½ S	*σ Scorpionis.*
	17	5,0	16	18	27,0	-	-	27,0	1	1,0	39½ S	*Antares.*
2	Wound up the Clock: Arc of Vibration 1°: 37′,5.											
	34	17,7	15	35	32,0	36	43,5	32,04	1	+0,87	6½ S	*α Serpentis.*
	48	28,0	15	49	47,0	51	3,5	47,16	1	0,7	35½ S	*δ Scorpionis.*
	53	46,4	15	55	4,0	56	19,0	4,13	1	0,6	32½ S	*β Scorpionis.*
	3	48,5	16	5	2,0	6	13,0	2,10	1	0,47	16½ S	*δ Ophiuchi.*
	7	41,0	16	8	55,0	10	6,0	54,98	..	...	17½ S	*ε Ophiuchi.*
	17	6,0	16	18	28,0	19	45,7	27,74	1	1,0	39½ S	*Antares.*
3	48	45,0	8	50	2,5	51	17,0	8,89	2	0,9	- - -	⊙ 1 L.
	50	57,4	8	52	15,3	53	30,0					⊙ 2 L.
	34	18,7	15	35	33,0	36	44,0	32,91	1	0,83	6½ S	*α Serpentis.*
	46	42,5	15	48	4,0	49	22,0	3,95	3	0,85	35½ S	*π Scorpionis.*
	53	47,5	15	55	5,0	56	20,0	5,15	1	1,03	32½ S	*β Scorpionis.*
	3	49,4	16	5	3,0	6	14,0	3,08	1	0,97	16½ S	*δ Ophiuchi.*
	9	0,0	16	10	21,0	11	40,0	21,19	2	1,0	38½ S	*σ Scorpionis.*
	17	7,0	16	18	29,0	-	-	29,0	1	1,0	39½ S	*Antares.*
	23	23,0	16	24	47,0	26	7,0	46,83	..	...	41 S	*τ Scorpionis.*
4	52	38,5	8	53	55,0	55	9,5	1,63	1	0,94	- - -	⊙ 1 L.
	54	59,2	8	56	8,0	57	22,4					⊙ 2 L.
	53	48,3	15	55	6,0	53	21,0	6,10	1	0,93	32½ S	*β Scorpionis.*
	7	43,0	16	8	57,0	10	8,0	56,98	2	1,0	17½ S	*ε Ophiuchi.*
	17	8,0	16	18	30,0	19	49,0	30,06	1	1,0	39½ S	*Antares.*
5	56	31,0	8	57	48,0	59	2,5	54,44	1	1,61	- - -	⊙ 1 L.
	58	43,0	9	0	1,0	1	15,0					⊙ 2 L.
6	0	22,5	9	1	39,0	2	54,5	46,34	1	1,30	- - -	⊙ 1 L.
	2	35,0	9	3	53,0	5	7,0					⊙ 2 L.
7	4	14,5	9	5	32,0	6	45,4	37,83	1	1,39	- - -	⊙ 1 L.
	6	27,4	9	7	44,6	8	57,6					⊙ 2 L.
8	8	5,5	9	9	22,0	10	36,0	28,19	1	0,86	- - -	⊙ 1 L.
	10	17,0	9	11	34,5	12	48,0					⊙ 2 L.
	3	55,0	16	5	9,0	6	19,4	8,83	5	1,13	16½ S	*δ Ophiuchi.*
	7	48,0	16	9	2,0	10	13,0	1,98	4	1,25	17½ S	*ε Ophiuchi.*

In the YEAR M.DCCCXIV.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days.	Rate of Clock. +	Zenith Distance.	Names or Characters of the STARS AND PLANETS.
AUGUST 8	17	12,0	16	18	34,0	19	53,0	34,06	4	1,0	39½ S	*Antares.*
	23	29,0	16	24	52,4	26	12,0	52,28	4	1,09	41 S	*τ Scorpionis.*
	33	22,0	16	34	49,0	36	12,0	48,87	..	...	19 N	*ζ Herculis.*
	38	18,0	16	39	50,5	41	20,7	50,84	..	...	50¼ S	*μ Scorpionis.*
9	17	13,0	16	18	35,0	19	54,0	35,06	1	1,0	39½ S	*Antares.*
	23	30,0	16	24	53,4	26	13,3	53,35	1	1,1	41 S	*τ Scorpionis.*
	33	23,0	16	34	49,8	36	13,0	49,77	1	0,93	19 N	*ζ Herculis.*
	38	19,0	16	39	52,0	41	22,0	52,17	1	1,27	50¼ S	*μ Scorpionis.*
11	19	34,4	9	20	51,0	22	4,3	56,80	3	1,17	- - -	☉ 1 L.
	21	46,0	9	23	3,0	24	16,0					☉ 2 L.
	17	14,8	16	18	37,0	19	56,0	37,01	2	0,96	39½ S	*Antares.*
	23	32,0	16	24	55,5	26	15,0	55,33	2	0,96	41 S	*τ Scorpionis.*
	38	21,2	16	39	54,0	41	24,0	54,22	2	1,01	50¼ S	*μ Scorpionis.*
	59	3,0	17	0	19,0	1	32,7	19,03	..	...	28¾ S	*η Ophiuchi.*
	20	4,0	17	21	36,0	23	4,5	36,04	..	...	50 S	*λ Scorpionis.*
	25	38,0	17	26	54,0	28	6,8	53,95	..	...	¾ S	*α Ophiuchi.*
	33	39,0	17	34	53,0	36	4,0	52,98	..	...	8¼ S	*β Ophiuchi.*
12	23	22,4	9	24	39,8	25	53,0	45,43	1	1,33	- - -	☉ 1 L.
	25	35,8	9	26	51,0	28	4,5					☉ 2 L.
13	27	10,4	9	28	27,0	29	40,2	32,83	1	0,70	- - -	☉ 1 L.
	29	22,0	9	30	39,0	31	52,3					☉ 2 L.
15	34	45,0	9	36	1,2	-	-	6,86	2	1,11	- - -	☉ 1 L.
	37	56,0	9	-	-	39	26,0					☉ 2 L.
16	Wound up the Clock: Arc of Vibration 1° 38'.											
17	59	9,7	17	0	26,7	1	39,5	26,06	6	1,18	28¼ S	*η Ophiuchi.*
	-	-	17	21	43,6	23	11,8	- -	6	1,24	50 S	*λ Scorpionis.*
18	-	-	9	47	20,5	-	-	26,0	3	1,78	- - -	☉ 1 L.
	-	-	9	49	31,5	50	44,0					☉ 2 L.
19	49	50,0	9	51	4,5	52	17,0	9,91	1	0,41	- - -	☉ 1 L.
	51	59,0	9	53	16,0	54	27,0					☉ 2 L.
21	20	15,0	17	21	47,0	23	16,0	47,17	4	0,95	50 S	*λ Scorpionis.*
	25	49,5	17	27	5,0	28	18,0	5,12	10	1,16	¾ S	*α Ophiuchi.*
	33	50,0	17	35	4,0	36	15,0	3,98	10	1,1	8¼ S	*β Ophiuchi.*
	48	20,0	17	49	35,0	50	47,0	34,99	..	...	23 S	*γ Ophiuchi.*
	53	14,4	17	54	40,0	56	2,0	39,99	..	...	43½ S	*γ Sagittarii.*
	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.											
22	1	1,0	10	2	16,4	3	29,3	21,51	3	1,33	- - -	☉ 1 L.
	3	11,0	10	4	26,5	5	39,0					☉ 2 L.
	59	15,0	17	0	31,4	1	44,8	31,41	5	1,02	28¼ S	*η Ophiuchi.*
	5	42,0	17	6	57,7	8	11,0	57,85	..	...	1½ N	*α Herculis.*
	20	16,0	17	21	48,0	23	17,0	48,17	1	1,0	50 S	*λ Scorpionis.*
	25	51,0	17	27	6,2	28	19,0	6,33	1	1,23	¾ S	*α Ophiuchi.*
	-	-	17	35	5,0	36	16,3	5,25	1	1,15	8¼ S	*β Ophiuchi.*
	38	9,0	17	39	22,0	40	33,0	22,23	1	1,1	10¼ S	*γ Ophiuchi.*
	48	21,0	17	49	36,0	50	48,0	35,99	1	1,0	23 S	*γ Ophiuchi.*
	53	18,0	17	54	41,0	56	3,0	40,84	1	0,87	43½ S	*γ Sagittarii.*
23	4	43,5	10	5	59,0	7	11,5	3,96	1	0,86	- - -	☉ 1 L.
	6	53,5	10	8	9,3	9	21,0					☉ 2 L.
	59	16,0	17	0	32,3	1	45,6	32,31	1	0,9	28¼ S	*η Ophiuchi.*
24	8	25,0	10	9	41,2	10	53,4	45,71	1	0,65	- - -	☉ 1 L.
	10	35,3	10	11	50,4	13	3,0					☉ 2 L.

In the YEAR M.DCCCXIV.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock. +	Zenith Distance.	Names or Characters of the STARS AND PLANETS.
AUGUST 26	59	19,0	17	0	35,0	1	48,0	55,01	3	0,9	28½ S	*η Ophiuchi.*
	5	45,2	17	7	1,0	8	14,3	1,13	4	0,82	¼ N	*α Herculis.*
	20	20,5	17	21	52,0	22	20,5	52,17	4	1,0	50 S	*λ Scorpionis.*
	25	54,0	17	27	10,0	28	22,0	9,75	4	0.82	¼ S	*α Ophiuchi.*
	33	55,0	17	35	9,0	36	20,0	8,95	4	0,96	8½ S	*β Ophiuchi.*
	38	12,0	17	39	26,0	40	36,0	25,73	4	0,77	10¼ S	*γ Ophiuchi.*
	48	24,3	17	49	39,0	50	51,0	39,06	4	0,78	23 S	*ν Ophiuchi.*
	53	19,0	17	54	44,0	55	6,4	44,19	4	0,87	43¼ S	*γ Sagittarii.*
	2	39,0	19	4	0,3	5	17,5	0,13	..	....	35¼ S	☽ 1 L. 8h 46′ 12″,51 mean Time.
27	19	30,0	10	20	44,2	21	56,3	49,14	3	0,91	- - -	☉ 1 L.
	21	38,4	10	22	54,0	24	6,0					☉ 2 L.
28	23	10,0	10	24	25,2	25	37,0	29,76	1	1,12	- - -	☉ 1 L.
	25	20,0	10	26	34,2	27	46,2					☉ 2 L.
29	26	50,0	10	28	5,2	29	17,0	9,86	1	1,10	- - -	☉ 1 L.
	29	0,0	10	30	14,5	31	26,5					☉ 2 L.
	P. M. Examined the Line of Collimation and Meridian adjustment,—found both out.—Adjusted the *Instrument.*											
30	30	30,4	10	31	45,5	32	57,0	49,71	..	....	- - -	☉ 1 L.
	32	39,0	10	33	54,4	35	6,0					☉ 2 L.
	30	0,0	18	31	31,4	33	4,0	34,12	..	....	25½ N	*α Lyræ.*
	58	18,0	18	59	37,7	0	53,0	37,7	..	....	34½ S	*π Sagittarii.*
31	34	10,5	10	35	24,8	36	36,7	29,91	1	+1,80	- - -	☉ 1 L.
	36	19,8	10	-	-	38	46,7					☉ 2 L.
	20	23,5	17	21	55,0	23	24,0	55.29	5	0,63	50 S	*λ Scorpionis.*
	33	58,8	17	35	13,0	36	24,0	12,93	5	0,79	8½ S	*β Ophiuchi.*
	43	17,6	18	44	40,0	45	59,3	40,04	..	....	39½ S	*σ Sagittarii.*
SEPT. 1	37	49,0	10	39	3,2	40	15,0	7,56	1	0,35	- - -	☉ 1 L.
	39	57,0	10	41	12,3	42	23,0					☉ 2 L.
	Wound up the Clock: Arc of Vibration 1°: 38′,5.											
	34	0,0	17	35	14,0	36	25.0	13,97	1	1,07	8½ S	*β Ophiuchi.*
	38	17,2	17	39	31,0	40	42,0	31,06	6	0,90	10¼ S	*γ Ophiuchi.*
	48	29,4	17	49	44,0	50	56,0	44,08	6	0,84	23 S	*ν Ophiuchi.*
	53	23,0	17	54	49,2	56	10,8	48,88	6	0,75	43¼ S	*γ Sagittarii.*
	43	18,3	18	44	41,0	46	0,0	40,88	1	0,80	39½ S	*σ Sagittarii.*
	50	18,5	18	51	43,3	53	5,0	43,36	..	....	43½ S	*ζ Sagittarii.*
2	41	27,4	10	42	42,2	43	54,0	46,82	1	1,56	- - -	☉ 1 L.
	43	37,0	10	44	52,0	46	2,5					☉ 2 L.
3	45	7,0	10	46	20,8	47	33,0	26,18	1	1,86	- - -	☉ 1 L.
	47	17,0	10	48	31,0	49	41,0					☉ 2 L.
4	48	45.8	10	50	0,0	51	12,0	4,39	1	1,01	- - -	☉ 1 L.
	50	54.4	10	52	8,3	53	20,0					☉ 2 L.
	34	4,0	17	35	18,0	36	28,2	17,78	3	1,24	8½ S	*β Ophiuchi.*
	48	33,3	17	49	48,2	51	0,0	48,16	3	1,34	23 S	*ν Ophiuchi.*
	11	21,2	18	12	50,4	14	16,0	50.38	..	....	47½ S	*ε Sagittarii.*
	30	5,5	18	31	39.5	33	10,0	39,55	5	1,11	25½ N	*α Lyræ.*
	43	22,3	18	44	44.5	46	3,5	44,51	3	1,22	39½ S	*σ Sagittarii.*
	50	22,0	18	51	47,0	53	9,0	47,08	3	1,24	43½ S	*ζ Sagittarii.*
	58	24,0	18	59	43,0	0	59,0	43,02	5	1,15	34½ S	*π Sagittarii.*
	Examined the Line of Collimation and Meridian adjustment,—found both right.											

In the YEAR M.DCCCXIV.

DAY OF THE MONTH.	I. Wire. M	S	Meridian. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	Names or Characters of the STARS AND PLANETS.
										+		
Sept. 5	52	24,2	10	53	39,0	54	50,9	42,77	1	1,38	. . .	☉ 1 L.
	54	32,0	10	55	47,0	56	58,4					☉ 2 L.
	26	5,0	17	27	20,2	28	32,0	20,1	. .	. . .	½ S	*α Ophiuchi.*
	34	5,0	17	35	19,6	36	29,6	18,88	1	1,13	8½ S	*β Ophiuchi.*
	38	22,5	17	39	36,0	40	46,0	35,91	1	0,75	1½ S	*γ Ophiuchi.*
	48	34,5	17	49	49,0	51	1,0	49,11	1	1,0	23 S	*ν Ophiuchi.*
	53	29,0	17	54	54,4	56	16,0	51,28	4	1,37	43½ S	*γ Sagittarii.*
	11	22,2	18	12	51,6	14	17,2	51,53	1	1,13	47½ S	*ε Sagittarii.*
	30	6,6	18	31	40,6	33	11,0	40,62	1	1,07	25½ N	*α Lyræ.*
	43	23,8	18	44	46,0	46	5,0	46,01	1	1,50	39½ S	*σ Sagittarii.*
	50	28,3	18	51	48,0	53	10,0	48,16	1	1,1	45½ S	*ζ Sagittarii.*
	58	25,0	18	59	44,2	1	0,0	44,12	1	1,03	34½ S	*π Sagittarii.*
6	38	23,8	17	39	37,5	40	47,2	37,26	1	1,33	10½ S	*γ Ophiuchi.*
	53	30,0	17	54	55,6	56	17,0	55,38	1	1,07	43½ S	*γ Sagittarii.*
	11	24,0	18	12	53,0	14	19,0	53,13	1	1,67	47½ S	*ε Sagittarii.*
	43	25,0	18	44	47,6	46	6,3	47,43	1	1,37	39½ S	*σ Sagittarii.*
	50	25,0	18	51	49,5	53	11,7	49,76	1	1,63	45½ S	*ζ Sagittarii.*
	58	27,7	*18	59	45,7	1	2,5	- -	. .	. . .	34½ S	*π Sagittarii.*
	45	50,0	19	47	9,2	48	25,4	9,19	. .	. . .	54½ S	*ϑ Centaur.* 3h 45′ 46″,88 mean Time.
	Eastern end of the Axis 0″,9 too high.											
7	59	41,5	11	0	55,5	2	6,7	. .	. .	. . .	. . .	☉ 1 L.
	1	49,8	*11	3	4,7	*4	16,5					☉ 2 L.
	Western end of the Axis 0″,5 too high.											
	11	25,5	18	12	55,0	14	20,4	54,85	1	1,47	47½ S	*ε Sagittarii.*
	16	13,5	18	17	34,6	18	53,2	34,73	1	1,33	38½ S	*λ Sagittarii.*
	30	10,2	*18	31	43,4	33	14,0	- -	. .	. . .	25½ N	*α Lyræ.*
	43	26,5	18	44	49,0	46	8,0	48,93	1	1,53	39½ S	*σ Sagittarii.*
	50	26,2	18	51	51,0	53	13,2	51,18	1	1,34	43½ S	*ζ Sagittarii.*
	Eastern end of the Axis 0″,9 too high.											
8	38	26,4	17	39	40,0	40	49,3	39,71	2	+ 1,14	10½ S	*γ Ophiuchi.*
	48	39,0	*17	49	58,7	51	5,5	53,71	. .	. . .	23 S	*ν Ophiuchi.*
	Axis level, by this trial.											
	53	33,0	17	54	58,0	56	20,0	58,08	2	+ 1,4	43½ S	*γ Sagittarii.*
	11	27,0	18	12	56,3	14	22,0	56,28	1	1,47	47½ S	*ε Sagittarii.*
	16	15,0	18	17	36,0	18	55,0	36,31	1	1,57	38½ S	*λ Sagittarii.*
	30	11,7	*18	31	46,0	33	15,7	45,77	. .	. . .	25½ N	*α Lyræ.*
	43	28,0	18	44	50,5	46	9,4	50,41	1	1,47	39½ S	*σ Sagittarii.*
	50	27,6	18	51	52,7	53	15,0	52,83	1	1,63	43½ S	*ζ Sagittarii.*
	Western end of the Axis 0″,55 too high.											
	By the mean of the foregoing Observations, the Eastern end of the Axis 0″,16 too high.											
9	-	-	17	55	0.0	56	22,0	0,04	1	+ 2,0	43½ S	*γ Sagittarii.*
	11	28,6	18	12	58,0	14	23,4	57,88	1	1,57	47½ S	*ε Sagittarii.*
	16	16,5	18	17	38,0	18	56,6	38,08	1	1,7	38½ S	*λ Sagittarii.*
	30	13,0	*18	31	48,0	33	17,2	- -	. .	. . .	25½ N	*α Lyræ.*
	43	29,7	18	44	52,0	46	11,0	51,98	1	1,6	39½ S	*σ Sagittarii.*
	-	-	18	51	55,0	53	16,6	54,84	1	1,95	43½ S	*ζ Sagittarii.*
	41	37,0	19	42	51,0	44	2,8	51,18	. .	. . .	S	*α Aquilæ.*

In the YEAR M.DCCCXIV.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires S	No. of Days	Rate of Clock.	Zenith Distance.	*Names* or *Characters* of the STARS AND PLANETS.
										+		
SEPT. 10	10	34,5	11	11	49,0	12	59,5	53,04	..	...	- - -	⊙ 1 L.
	12	43,0	11	13	57,7	15	8,7					⊙ 2 L.
	11	30,6	18	12	59,5	14	25,4	59,63	1	1,83	47½ S	ε *Sagittarii.*
	30	14,8	18	31	49,4	33	19,4	49,17	1	1,95	25½ N	α *Lyræ.*
	41	58,7	19	42	52,7	44	4,7	52,93	1	1,77	4½ S	α *Aquilæ.*
11	11	31,0	18	13	0,0	14	26,2	0,18	1	0,57	47½ S	ε *Sagittarii.*
	16	19,0	18	17	40,2	18	58,8	40,36	2	1,23	38½ S	λ *Sagittarii.*
	30	15,0	18	31	49,2	33	20,0	49,27	1	0,20	25½ N	α *Lyræ.*
	43	32,0	18	44	54,0	46	14,0	54,01	2	1,36	59½ S	σ *Sagittarii.*
	50	32,4	18	51	57,0	53	19,0	57,18	2	1,1	43½ S	ζ *Sagittarii.*
	58	35,5	18	59	53,0	1	9,0	53,66	..	...	34½ S	π *Sagittarii.*
	Examined the Line of Collimation and Meridian adjustment,—found both right.											
										+		
12	17	49,3	11	19	3,0	20	14,0	7,02	2	1,09	- - -	⊙ 1 L.
	19	57,0	11	21	11,0	22	22,0					⊙ 2 L.
	53	36,5	17	55	4,0	56	26,0	3,96	3	1,83	43½ S	γ *Sagittarii.*
	16	20,0	18	17	42,0	19	0,0	41,81	1	1,33	38½ S	λ *Sagittarii.*
	30	16,7	18	31	50,5	33	21,5	50,72	1	1,5	25½ N	α *Lyræ.*
	43	34,0	18	44	56,0	46	15,0	56,06	1	1,37	59½ S	σ *Sagittarii.*
	50	34,0	18	51	58,5	53	20,3	58,68	1	1,5	43½ S	ζ *Sagittarii.*
	-	-	18	59	54,3	1	10,4	54,38	1	1,35	34½ S	π *Sagittarii.*
	41	41,0	19	42	55,9	44	6,5	55,10	2	1,07	4½ S	α *Aquilæ.*
13	21	26,5	11	22	40,0	23	51,2	44,20	1	1,38	- - -	⊙ 1 L.
	23	54,0	11	24	48,3	25	59,4					⊙ 2 L.
	11	33,5	18	13	3,0	14	29,0	3,01	2	1,38	47½ S	ε *Sagittarii.*
	16	21,5	18	17	45,0	19	1,2	42,98	1	1,23	38½ S	λ *Sagittarii.*
	30	18,0	18	31	52,0	33	23,0	52,17	1	1,43	25½ N	α *Lyræ.*
	43	35,2	18	44	57,0	46	16,3	57,18	1	1,17	59½ S	σ *Sagittarii.*
	50	35,3	18	52	0,0	53	22,0	0,16	1	1,43	43½ S	ζ *Sagittarii.*
	41	42,0	18	42	56,0	44	7,7	56,15	1	1,07	4½ S	α *Aquilæ.*
14	25	3,0	11	26	17,0	27	28,4	20,82	1	0,92	- - -	⊙ 1 L.
	27	10,5	11	28	25,2	29	35,0					⊙ 2 L.
	11	35,0	18	13	4,0	14	30,0	4,13	1	1,17	47½ S	ε *Sagittarii.*
	16	23,0	18	17	44,2	19	2,5	44,31	1	1,33	38½ S	λ *Sagittarii.*
	30	19,9	18	31	53,4	33	24,0	53,37	1	1,13	25½ N	α *Lyræ.*
	58	38,0	18	59	57,0	1	13,0	57,02	2	1,32	34½ S	π *Sagittarii.*
	41	43,0	19	42	57,4	44	9,0	57,43	1	1,35	4½ S	α *Aquilæ.*
15	28	38,5	11	29	53,7	31	5,0	57,56	1	1,14	- - -	⊙ 1 L.
	30	47,3	11	32	2,0	33	15,0					⊙ 2 L.
	11	36,2	18	13	5,0	14	31,0	5,18	1	1,07	47½ S	ε *Sagittarii.*
	16	24,0	18	17	45,0	19	4,0	45,12	1	1,43	38½ S	λ *Sagittarii.*
	30	20,9	18	31	54,4	33	25,0	54,37	1	1,0	25½ N	α *Lyræ.*
	43	38,0	18	44	59,6	46	19,0	59,86	1	1,3	59½ S	σ *Sagittarii.*
	50	37,0	18	52	2,0	53	24,0	2,08	3	1,12	43½ S	ζ *Sagittarii.*
	58	39,0	18	59	58,2	1	13,8	58,07	1	1,0	34½ S	π *Sagittarii.*
	41	43,8	19	42	58,4	44	10,3	58,45	1	1,03	4½ S	α *Aquilæ.*
16	32	17,0	11	33	30,4	34	41,5	34,62	1	1,46	- - -	⊙ 1 L.
	34	25,0	11	35	38,7	36	49,3					⊙ 2 L.
	11	37,0	18	13	6,0	14	32,0	6,13	1	0,93	47½ S	ε *Sagittarii.*
	16	25,0	18	17	46,7	19	5,0	46,66	1	1,23	38½ S	λ *Sagittarii.*
	30	21,0	18	31	55,4	33	26,0	55,37	1	1,0	25½ N	α *Lyræ.*
	43	38,5	18	45	1,4	46	20,0	1,13	1	1,1	59½ S	σ *Sagittarii.*
	50	38,2	18	52	3,0	53	25,0	3,13	1	1,07	43½ S	ζ *Sagittarii.*
	58	40,0	18	59	59,0	1	15,0	59,02	1	1,0	34½ S	π *Sagittarii.*
	41	45,0	19	43	0,0	44	11,7	59,90	1	1,3	4½ S	α *Aquilæ.*
	Wound up the Clock: Arc of Vibration 1°: 38'.											

In the YEAR M.DCCCXIV.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	Names or Characters of the STARS AND PLANETS.
SEPT. 17	30	22,2	18	31	57,0	33	27,0	56,72	1	+ 1,27	25¾ N	*α Lyræ.*
	43	40,0	18	45	2,5	46	21,2	2,36	1	1,27	39¼ S	*σ Sagittarii.*
	50	39,2	18	52	4,5	53	26,0	4,38	1	1,17	45¼ S	*ζ Sagittarii.*
	58	41,0	19	0	0,3	1	16,2	0,22	1	1,17	34½ S	*π Sagittarii.*
	41	46,4	19	43	1,0	44	12,8	1,03	1	1,17	4¼ S	*α Aquilæ.*
18	39	30,3	11	40	43,8	41	55,0	47,99	2	1,18	- - -	☉ 1 L.
	41	38,0	11	42	52,0	44	3,0					☉ 2 L.
	16	27,4	18	17	49,0	19	7,0	48,91	2	1,12	38¼ S	*λ Sagittarii.*
	30	23,4	18	31	58,5	33	28,4	58,13	1	1,33	25¼ N	*α Lyræ.*
	43	41,0	18	45	3,2	46	22,0	3,16	1	0,83	39¼ S	*σ Sagittarii.*
	50	40,3	18	52	6,0	53	27,4	5,76	1	1,33	45¼ S	*ζ Sagittarii.*
	41	48,0	19	43	2,0	44	13,8	2,18	1	1,20	4¼ S	*α Aquilæ.*
19	43	7,0	11	44	21,0	45	32,0	24,70	1	1,21	- - -	☉ 1 L.
	45	16,0	11	46	28,4	47	39,5					☉ 2 L.
	30	25,0	18	31	59,7	33	30,0	59,52	1	1,47	25¼ N	*α Lyræ.*
	43	42,2	18	45	4,5	46	23,4	4,46	1	1,3	39¼ S	*σ Sagittarii.*
	50	41,6	18	52	7,0	53	29,0	6,98	1	1,3	45¼ S	*ζ Sagittarii.*
	41	49,3	19	43	3,5	44	15,0	3,55	1	1,33	4¼ S	*α Aquilæ.*
20	-	-	18	32	0,7	33	31,5	0,66	1	1,25	25¼ N	*α Lyræ.*
	41	51,2	19	43	5,0	44	16,4	5,13	1	1,6	4¼ S	*α Aquilæ.*
	15	23,0	20	16	57,5	18	28,0	57,31	..	...	26¼ N	*γ Cygni.*
	34	46,0	20	36	30,0	38	9,0	29,72	..	...	31¾ N	*α Cygni.*
	38	37,0	20	40	4,5	41	29,0	4,62	..	...	20¼ N	*ε Cygni.*
21	50	21,5	11	51	35,4	-	-	39,20	2	1,70	- - -	☉ 1 L.
	-	-	11	53	43,0	54	54,0					☉ 2 L.
	41	53,0	19	43	7,0	44	18,5	7,10	1	1,97	4¼ S	*α Aquilæ.*
	15	23,0	20	16	58,8	18	30,0	58,58	1	1,10	26¼ N	*γ Cygni.*
	34	47,5	20	36	31,3	38	10,4	31,09	1	1,4	31¾ N	*α Cygni.*
	38	38,4	20	40	6,0	41	30,6	6,11	1	1,5	20¼ N	*ε Cygni.*
22	53	59,0	11	55	13,0	56	24,0	16,46	1	1,66	- - -	☉ 1 L.
	56	6,0	11	57	20,0	58	31,0					☉ 2 L.
	42	27,4	18	43	48,5	45	6,0	48,37	..	...	36 S	☽ 1 L. 6h 39' 19",59 mean Time.
	50	47,4	18	52	12,0	53	34,0	12,18	3	1,76	45¼ S	*ζ Sagittarii.*
	58	49,0	19	0	8,0	1	24,0	8,02	5	1,56	34½ S	*π Sagittarii.*
23	30	31,0	18	32	6,0	33	37,0	5,93	3	1,8	25¾ N	*α Lyræ.*
	43	49,0	18	45	11,0	46	30,0	11,06	4	1,65	39¼ S	*σ Sagittarii.*
	35	23,0	19	36	44,0	38	2,0	44,02	..	...	38¼ S	☽ 1 L. 7h 28' 8",22 mean Time.
	44	37,5	19	45	57,0	47	12,2	55,66	..	...		♄ *Centrum.* 7h 37' 19",67 mean Time.
	15	27,4	20	17	2,0	18	34,0	2,28	2	1,9	26¼ N	*γ Cygni.*
24					Cloudy.							
25	-	-	12	6	5,5	7	16,5	10,1	3	2,0	- - -	☉ 1 L.
	6	59,0	12	8	14,7	9	24,0					☉ 2 L.
26	8	29,0	12	9	43,5	10	54,0	47,08	1	0,88	- - -	☉ 1 L.
	10	57,2	12	11	51,0	13	2,0					☉ 2 L.
	Examined the Line of Collimation and Meridian adjustment,—found the latter a little out.—Adjusted it.											
27	-	-	12	13	21,2	14	31,4	24,87	1	+ 1,59	- - -	☉ 1 L.
	14	15,0	12	15	29,0	16	40,0					☉ 2 L.
	50	56,0	18	52	21,0	53	43,0	21,08	..	...	45¼ S	*ξ Sagittarii.*
	58	58,0	19	0	17,2	1	33,0	17,06	..	...	34½ S	*π Sagittarii.*
	16	29,0	19	17	42,0	18	53,2	42,28	..	...	10¼ S	*δ Aquilæ.*
	37	45,0	19	39	0,0	40	12,0	59,97	..	...	3¼ S	*γ Aquilæ.*
	42	3,0	19	43	17,5	44	29,0	17,48	..	...	4¼ S	*α Aquilæ.*
	15	34,0	20	17	9,0	18	40,3	9,0	..	...	26¼ N	*γ Cygni.*
	34	58,0	20	36	40,8	38	20,0	40,92	..	...	31¾ N	*α Cygni.*
	-	-	20	40	17,0	41	41,4	16,71	..	...	20¼ N	*ε Cygni.*

In the YEAR M.DCCCXIV.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
										+		
SEPT. 28	15	45,0	12	16	58,7	18	9,8	2,93	1	1,56	* * *	☉ 1 L.
	17	53,3	12	19	7,0	20	18,0					☉ 2 L.
29	19	24,4	12	20	37,0	21	49,0	42,10	1	2,57	* * *	☉ 1 L.
	21	32,5	12	22	47,0	23	58,2					☉ 2 L.
	59	0,0	19	0	19,0	1	35,0	19,02	2	0,97	34½ S	π *Sagittarii.*
	16	31,0	19	17	44,0	18	56,0	44,28	2	1,13	10½ S	δ *Aquilæ.*
	23	28,3	19	24	51,0	26	10,2	50,94	2	1,1	14½ N	β *Cygni.*
	37	47,2	19	39	2,5	40	14,0	2,28	2	1,12	3½ S	γ *Aquilæ.*
	42	5,2	19	43	20,0	44	31,4	19,88	2	1,18	4½ S	α *Aquilæ.*
	15	36,0	20	17	11,0	18	43,0	11,17	2	1,12	26½ N	γ *Cygni.*
	38	51,0	20	40	19,2	41	44,0	19,17	2	1,2	20½ N	ε *Cygni.*
30	23	1,5	12	24	14,4	25	26,0	19,36	1	0,36	* * *	☉ 1 L.
	25	10,9	12	26	24,0	27	34,5					☉ 2 L.
OCT. 1	26	40,0	12	27	53,0	29	4,5	57,65	1	1,19	* * *	☉ 1 L.
	28	48,0	12	30	2,3	31	12,0					☉ 2 L.
	Wound up the Clock: Arc of Vibration 1° 37′,5.											
	15	39,0	20	17	14,4	18	46,0	14,35	2	+ 1,56	26½ N	γ *Cygni.*
2	* *		12	31	32,5	32	42,4	36,28	1	1,12	* * *	☉ 1 L.
	32	27,2	12	33	40,2	34	52,0					☉ 2 L.
	16	36,0	19	17	50,0	19	1,4	50,05	3	1,82	10½ S	δ *Aquilæ.*
	37	53,3	19	39	7,5	40	19,0	7,51	3	1,76	3½ S	γ *Aquilæ.*
	42	11,4	19	43	25,0	44	36,0	25,08	3	1,76	4½ S	α *Aquilæ.*
	Examined the Line of Collimation and Meridian adjustment,—found both right.											
										+		
3	33	58,0	12	35	12,5	36	23,5	16,60	1	2,52	* * *	☉ 1 L.
	36	7,0	12	37	21,0	38	32,0					☉ 2 L.
	16	37,5	19	17	51,5	19	2,4	51,42	1	1,33	10½ S	δ *Aquilæ.*
	23	35,0	19	24	58,0	26	18,0	58,03	4	1,79	14½ N	β *Cygni.*
	42	13,0	19	43	27,0	44	38,0	26,98	1	1,87	4½ S	α *Aquilæ.*
	15	45,0	20	17	18,2	18	50,0	18,25	4	1,77	26½ N	γ *Cygni.*
	35	7,8	20	36	51,0	38	30,0	50,93	4	1,87	31½ N	α *Cygni.*
	38	58,4	20	40	26,7	41	51,0	26,52	4	1,83	20½ N	ε *Cygni.*
4	37	37,0	12	38	51,5	40	2,5	55,65	1	0,95	* * *	☉ 1 L.
	39	46,0	12	41	0,3	42	11,0					☉ 2 L.
	16	39,0	19	17	53,0	19	4,0	52,95	1	1,54	10½ S	δ *Aquilæ.*
	37	56,8	19	39	10,8	40	23,0	11,04	1	1,55	3½ S	γ *Aquilæ.*
	42	14,3	19	43	29,0	44	39,5	29,02	1	1,6	4½ S	α *Aquilæ.*
	15	44,5	20	17	20,0	18	51,8	19,97	1	1,7	26½ N	γ *Cygni.*
	35	9,0	20	36	52,5	38	31,8	52,33	1	1,43	31½ N	α *Cygni.*
	39	0,0	20	40	28,0	41	52,4	27,92	1	1,43	20½ N	ε *Cygni.*
5	41	18,0	12	42	32,0	43	43,5	36,48	1	2,33	* * *	☉ 1 L.
	43	27,0	12	44	41,0	45	52,0					☉ 2 L.
	23	38,0	19	25	1,0	26	21,4	1,13	2	1,56	14½ N	β *Cygni.*
	42	16,9	19	43	30,5	44	41,0	30,62	1	1,57	4½ S	α *Aquilæ.*
	15	46,0	20	17	21,5	18	53,0	21,40	2	1,4	26½ N	γ *Cygni.*
	35	10,8	20	36	54,0	38	33,0	53,93	1	1,57	31½ N	α *Cygni.*
	39	2,0	20	40	30,0	41	54,0	29,82	1	1,87	20½ N	ε *Cygni.*
6	44	58,4	12	46	12,3	47	23,3	16,76	1	1,48	* * *	☉ 1 L.
	47	7,0	12	48	21,0	49	33,0					☉ 2 L.
	42	17,5	19	43	32,0	44	42,7	32,12	1	1,57	4½ S	α *Aquilæ.*
	15	47,7	20	17	23,0	18	55,0	23,07	2	1,73	26½ N	γ *Cygni.*
	35	12,0	20	36	55,4	38	35,0	55,43	1	1,53	31½ N	α *Cygni.*
	39	3,8	20	40	32,0	41	56,0	31,77	1	1,93	20½ N	ε *Cygni.*

In the YEAR M.DCCCXIV.

DAY of the MONTH.	I. Wire. M	S	Meridian. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock. +	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
Oct. 7	48	39,0	12	49	53,0	51	4,4	57,5	1	1,44	- - -	☉ 1 L.
	50	48,0	12	52	2,0	53	13,0					☉ 2 L.
	23	41,0	19	25	4,0	26	23,4	3,88	2	1,34	14¼ N	β *Cygni.*
	-	-	19	39	16,2	40	28,0	16,11	3	1,73	3¼ S	γ *Aquilæ.*
	42	19,0	19	43	33,4	44	44,0	33,18	1	1,4	4¼ S	α *Aquilæ.*
	2	20,0	20	3	33,0	4	44,0	33,19	..	...	14¼ S	δ *Antinoi.*
	7	55,2	20	9	11,0	10	24,0	11,01	..	...	20¼ S	1 *α Capricorni.*
	15	49,3	20	17	24,8	18	37,0	24,87	1	1,8	26¼ N	γ *Cygni.*
	35	14,0	20	36	57,0	38	36,5	57,10	1	1,7	31¼ N	α *Cygni.*
	59	5,0	20	40	33,4	41	57,5	33,15	1	1,37	20¼ N	ε *Cygni.*
8	52	19,5	12	53	33,5	54	45,0	28,23	1	1,03	- - -	☉ 1 L.
	54	29,0	12	55	42,8	56	54,0					☉ 2 L.
9	56	2,0	12	57	16,0	58	27,2	20,33	1	2,0	- - -	☉ 1 L.
	58	11,0	12	59	24,0	0	36,2					☉ 2 L.
	2	23,2	20	3	37,0	4	47,5	36,89	2	1,78	14¼ S	δ *Antinoi.*
	15	52,5	20	17	28,0	19	0,0	28,02	2	1,57	26¼ N	γ *Cygni.*
	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.											
10	59	43,4	13	0	58,0	2	9,0	2,21	1	1,28	- - -	☉ 1 L.
	1	52,3	13	3	7,0	4	18,0					☉ 2 L.
11	3	26,0	13	4	40,2	5	52,0	45,12	1	1,81	- - -	☉ 1 L.
	5	35,4	13	6	50,0	8	1,5					☉ 2 L.
	2	26,0	20	3	40,0	4	50,0	39,7	2	1,38	14¼ S	δ *Antinoi.*
	8	1,0	20	9	17,2	10	30,0	17,26	4	1,5	20¼ S	1 *α Capricorni.*
	15	55,4	20	17	31,0	19	3,0	31,0	2	1,48	26¼ N	γ *Cygni.*
	39	11,0	20	-	-	42	3,4	38,81	4	1,49	20¼ N	ε *Cygni.*
12	Cloudy.											
13	10	52,2	13	12	6,5	13	18,4	11,60	2	1,44	- - -	☉ 1 L.
	13	2,0	13	14	16,7	15	27,0					☉ 2 L.
14	14	36,0	13	15	50,3	17	2,2	55,62	1	1,42	- - -	☉ 1 L.
	16	46,0	13	18	1,0	19	12,6					☉ 2 L.
	2	31,0	20	3	45,0	4	55,0	44,7	3	1,67	14¼ S	δ *Antinoi.*
	8	7,0	20	9	22,8	10	35,6	22,76	3	1,91	26¼ S	1 *α Capricorni.*
	16	0,0	20	17	36,2	19	8,0	36,0	3	1,64	26¼ N	γ *Cygni.*
	35	25,0	20	37	8,5	38	48,0	8,48	7	1,58	31¼ N	α *Cygni.*
	39	16,0	20	40	44,0	42	8,8	44,02	3	1,78	20¼ N	ε *Cygni.*
	13	35,0	21	16	11,3	18	40,8	11,07	..	...	48¼ N	α *Cephei.*
	30	32,0	21	31	49,0	33	4,0	49,05	..	...	30¼ S	γ *Capricorni.*
	35	51,7	21	37	6,0	38	18,0	6,11	..	...	4¼ S	ι *Pegasi.*
	43	8,0	21	44	40,7	46	10,6	40,86	..	...	51¼ S	γ *Gruis.*
15	18	21,0	13	19	35,3	-	-	40,35	1	1,63	- - -	☉ 1 L.
	-	-	13	-	-	22	57,0					☉ 2 L.
	2	33,0	20	3	46,0	4	57,0	46,19	1	1,67	14¼ S	δ *Antinoi.*
	8	9,0	20	9	24,2	10	37,3	24,39	1	1,83	26¼ S	1 *α Capricorni.*
	16	2,0	20	17	38,0	19	9,5	37,77	1	1,77	26¼ N	γ *Cygni.*
	35	27,0	20	37	10,0	38	49,5	10,19	1	1,67	31¼ N	α *Cygni.*
	39	17,8	20	40	46,0	42	10,8	45,97	1	1,97	20¼ N	ε *Cygni.*
	13	38,0	21	16	14,0	18	43,2	13,77	1	2,7	48¾ N	α *Cephei.*
	30	34,0	21	31	50,5	33	5,4	50,80	1	1,63	30¼ S	γ *Capricorni.*
	35	53,0	21	37	8,0	38	19,6	7,84	1	1,68	4¼ S	ι *Pegasi.*
	43	9,5	21	44	43,0	46	12,8	42,94	1	2,0	51¼ S	γ *Gruis.*
16	-	-	13	23	20,0	24	32,6	25,48	1	1,43	- - -	☉ 1 L.
	24	16,0	13	25	30,5	26	43,0					☉ 2 L.

Wound up the Clock: Arc of Vibration 1°: 38′.

In the YEAR M.DCCCXIV.

DAY of the MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires S	No. of Days	Rate of Clock.	Zenith Distance.	*Names* or *Characters* of the STARS and PLANETS.
OCT. 16	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.											
17	25	51,5	13	-	-	28	18,5			+		
	28	2,0	13	29	17,3	30	29,6	11,80	1	2,12	- - -	⊙ 1 L.
	2	36,0	20	3	49,6	5	0,6	49,49	2	1,65	14½ S	⊙ 2 L.
	8	12,0	20	9	27,3	10	40,0	27,56	2	1,46	26½ S	θ *Antinoi.*
	16	5,4	20	17	41,0	19	12,0	41,0	2	1,65	26½ N	1 α *Capricorni.*
	35	30,0	20	37	13,3	38	53,0	13,38	2	1,63	31½ N	γ *Cygni.*
	39	21,0	20	40	50,0	42	14,0	49,65	2	1,73	20½ N	α *Cygni.*
	13	42,5	21	16	17,7	18	46,8	17,65	2	1,91	48½ N	ε *Cygni.*
	22	40,0	21	23	54,0	25	5,5	54,07	2	1,83	19½ S	α *Cephei.*
	30	37,7	21	31	54,3	33	9,0	54,54	2	1,85	30½ S	β *Aquarii.*
	35	57,0	21	-	-	38	23,0	11,98	2	1,85	4½ S	γ *Capricorni.*
	43	12,8	21	44	46,0	46	16,2	46,11	2	1,62	51½ S	ε *Pegasi.*
												γ *Gruis.*
18	29	38,0	13	30	52,4	32	4,0					
	31	49,0	13	33	3,5	34	15,5	58,0	1	1,40	- - -	⊙ 1 L.
	8	37,7	20	9	53,0	11	5,5	53,01	..	....	26 S	⊙ 2 L.
	16	7,0	20	17	43,0	19	15,0	42,9	1	1,87	26½ N	2 α *Capricorni.*
	35	32,0	20	37	15,2	38	54,6	15,23	1	1,83	31½ N	γ *Cygni.*
	39	23,0	20	40	51,5	42	15,6	51,2	1	1,7	20½ N	α *Cygni.*
	22	41,7	21	23	55,6	25	6,6	55,57	1	1,47	19½ S	ε *Cygni.*
	-	-	21	31	56,0	33	10,4	56,08	1	1,55	30½ S	β *Aquarii.*
	35	59,0	21	37	13,0	38	24,5	13,06	1	1,75	4½ S	γ *Capricorni.*
	43	14,2	21	44	47,7	46	18,0	47,76	1	1,63	51½ S	ε *Pegasi.*
												γ *Gruis.*
19	33	25,0	13	34	39,5	35	52,2					
	35	35,3	13	36	50,3	38	2,5	45,07	1	1,67	- - -	⊙ 1 L.
	8	39,0	20	9	54,6	11	7,0	54,51	1	1,47	26 S	⊙ 2 L.
	16	9,0	20	17	44,5	19	16,5	44,52	1	1,67	26½ N	2 α *Capricorni.*
	39	25,0	20	40	53,6	42	17,0	52,82	1	1,63	20½ N	γ *Cygni.*
	13	44,0	21	16	19,0	18	49,0	- -	2	0,83	48½ N	ε *Cygni.*
	22	43,0	21	23	57,0	25	8,0	56,95	1	1,33	19½ S	α *Cephei.*
	36	0,4	21	37	14,6	38	26,0	14,59	1	1,5	4½ S	β *Aquarii.*
												ε *Pegasi.*
21	41	0,5	13	42	15,0	43	27,5					
	43	11,0	13	44	26,0	45	38,0	20,61	1	1,47	- - -	⊙ 1 L.
	7	40,0	20	8	30,2	9	48,5	30,48	..	....	35 S	⊙ 2 L.
	35	36,6	20	37	20,0	39	0,0	20,13	3	1,65	31½ N	☽ 1 L. 6h 8′ 58″,53 mean Time.
												α *Cygni.*
22	44	49,0	13	46	4,0	47	16,4					
	47	0,0	13	48	15,0	49	27,0	9,51	1	1,60	- - -	⊙ 1 L.
	-	-	20	37	22,0	37	1,5	- -	1	1,75	31½ N	⊙ 2 L.
	39	30,0	20	40	57,7	42	22,0	57,67	3	1,63	20½ N	α *Cygni.*
	59	5,0	21	0	24,4	1	41,2	24,51	..	....	35 S	ε *Cygni.*
	13	49,2	21	16	25,0	18	54,5	24,90	3	1,86	48½ N	☽ 1 L. 6h 56′ 46″,33 mean Time.
	22	48,0	21	24	2,0	25	15,0	1,95	3	1,67	19½ S	α *Cephei.*
	36	5,0	21	37	19,5	38	32,0	19,69	3	1,66	4½ S	β *Aquarii.*
												ε *Pegasi.*
23	48	38,5	13	49	53,4	51	6,0					
	50	49,0	13	52	5,0	53	17,2	59,13	1	1,73	- - -	⊙ 1 L.
												⊙ 2 L.
	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.											
24	52	27,2	13	53	43,0	54	55,5			+		
	54	39,0	13	55	55,0	57	7,0	48,73	1	1,01	- - -	⊙ 1 L.
	39	33,0	20	41	1,0	42	25,0	0,82	2	1,55	20½ N	⊙ 2 L.
	13	52,0	21	16	28,0	18	57,7	27,90	2	1,5	48½ N	ε *Cygni.*
	22	51,2	21	24	5,0	25	16,0	5,0	2	1,53	19½ S	α *Cephei.*
	36	8,8	21	37	23,0	38	34,3	23,21	2	1,6	4½ S	β *Aquarii.*
	56	57,7	21	58	47,0	0	32,5	46,94	..	....	61 S	ε *Pegasi.*
												α *Gruis.*
25	56	19,0	13	57	34,0	58	46,0					
	58	31,0	13	59	45,0	0	58,6	40,07	1	2,14	- - -	⊙ 1 L.
	35	43,6	20	37	27,0	39	6,0	26,82	3	1,58	31½ N	⊙ 2 L.
	39	34,7	20	41	2,4	42	26,7	2,35	1	1,60	20½ N	α *Cygni.*
												ε *Cygni.*

In the YEAR M.DCCCXIV.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock. +	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
Oct. 26	0	10,0	14	1	25,0	2	37,0	20,94	1	0,87	- - -	☉ 1 L.
	2	21,0	14	3	36,5	4	49,4					☉ 2 L.
28	-	-	14	9	10,0	10	22,2	15,81	2	1,38	- - -	☉ 1 L.
	10	6,2	14	11	22,0	12	35,5					☉ 2 L.
29	-	-	14	13	4,2	-	-					☉ 1 L.
	14	1,5	14	-	-	16	20,0	- -	..	...	- - -	☉ 2 L.
	23	0,0	21	24	15,0	25	25,0	14,97	5	1,86	19½ S	β *Aquarii.*
	30	58,0	21	32	15,0	33	29,0	14,93	12	1,57	30½ S	γ *Capricorni.*
	37	57,0	21	39	14,4	40	28,0	14,27	..	...	30½ S	δ *Capricorni.*
	43	32,5	21	45	6,0	46	36,2	6,04	5	1,62	51½ S	γ *Gruis.*
	57	6,0	21	58	56,0	0	41,0	55,83	5	1,72	61 S	α *Gruis.*
	33	26,0	22	34	40,2	35	52,0	40,32	..	...	34 S	ζ *Pegasi.*
	48	24,3	22	49	59,4	51	12,0	50,10	..	...	43¼ S	*Fomalhaut.*
30	15	42,2	14	16	58,5	18	11,2					☉ 1 L.
	17	55,0	14	19	11,0	20	25,0	4,76	2	1,92	- - -	☉ 2 L.
	14	2,4	21	16	38,7	19	8,0	38,42	6	1,74	48½ N	α *Cephei.*
	30	59,4	21	32	15,0	33	30,0	16,07	1	1,13	30½ S	γ *Capricorni.*
	37	58,5	21	-	-	40	29,6	15,69	1	1,55	30½ S	δ *Capricorni.*
	2	5,5	22	3	19,0	4	30,0	19,09	..	...	7¼ S	θ *Pegasi.*
	48	26,0	22	49	51,5	51	13,7	51,50	1	1,50	43¼ S	*Fomalhaut.*
31	19	36,6	14	20	52,4	22	6,3					☉ 1 L.
	21	50,0	14	23	7,0	-	-	59,64	1	1,17	- - -	☉ 2 L.
Nov. 1	23	32,5	14	24	48,2	26	2,0					☉ 1 L.
	25	46,3	14	27	2,0	28	15,0	55,31	1	1,17	- - -	☉ 2 L.
2	27	29,0	14	28	45,2	29	58,8					☉ 1 L.
	29	43,2	14	30	59,3	32	12,4	52,29	1	1,58	- - -	☉ 2 L.
	57	31,0	21	58	48,2	59	58,7	47,99	..	...	14½ S	α *Aquarii.*
	2	9,5	22	3	23,5	4	35,0	23,59	3	1,44	7½ S	θ *Pegasi.*
	13	24,0	22	14	37,0	15	48,2	37,26	..	...	15½ S	γ *Aquarii.*
	20	36,0	22	21	49,2	23	0,5	49,44	..	...	14 S	ζ *Aquarii.*
	33	32,2	22	34	46,0	35	58,0	46,27	4	1,5	3¾ S	ζ *Pegasi.*
	48	30,3	22	49	55,5	51	18,0	55,65	3	1,4	43¼ S	*Fomalhaut.*
3	31	25,5	14	32	42,2	33	56,0					☉ 1 L.
	33	40,0	14	34	56,2	36	10,0	49,30	1	0,81	- - -	☉ 2 L.
	14	8,0	21	16	44,0	19	13,4	43,82	4	1,36	48½ N	α *Cephei.*
	23	7,0	21	24	21,0	25	32,2	21,0	4	1,38	19½ S	β *Aquarii.*
	31	5,0	21	32	22,0	-	-	22,02	4	1,4	30½ S	γ *Capricorni.*
	38	5,0	21	39	21,0	40	35,0	21,25	4	1,49	30½ S	δ *Capricorni.*
	43	39,5	21	45	13,0	46	43,0	13,03	5	1,39	51½ S	γ *Gruis.*
	57	35,7	21	58	49,5	-	-	49,35	1	1,5	14½ S	α *Aquarii.*
	-	-	22	3	25,0	4	36,3	25,18	1	1,4	7½ S	θ *Pegasi.*
	13	25,4	22	14	38,7	15	49,4	38,76	1	1,43	15½ S	γ *Aquarii.*
	48	32,0	22	49	57,0	51	19,4	57,18	1	1,4	43¼ S	*Fomalhaut.*
	56	51,0	22	58	6,5	59	19,0	6,48	..	...	1¼ N	α *Pegasi.*
4	35	24,3	14	36	40,0	37	54,2					☉ 1 L.
	37	38,0	14	38	55,0	40	8,2	47,60	1	1,30	- - -	☉ 2 L.
	Wound up the Clock: Arc of Vibration 1° 57',5.											
	14	9,0	21	16	45,0	19	14,4	44,82	1	1,0	48½ N	α *Cephei.*
	31	6,0	21	32	23,0	33	37,3	23,04	1	1,0	30½ S	γ *Capricorni.*
	57	15,0	21	59	4,2	0	50,0	4,41	6	1,4	61 S	α *Gruis.*
	-	-	22	3	26,0	4	37,4	26,23	1	1,05	7½ S	θ *Pegasi.*
	13	26,4	22	14	40,0	15	50,6	39,96	1	1,17	15½ S	γ *Aquarii.*
5	39	22,0	14	40	39,5	41	53,0	46,60	1	1,20	- - -	☉ 1 L.
	41	37,2	14	42	54,0	44	8,0					☉ 2 L.
	31	7,3	21	32	25,0	33	59,0	24,98	1	1,67	30½ S	γ *Capricorni.*

In the YEAR M.DCCCXIV.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock. +	Zenith Distance.	Names or Characters of the STARS AND PLANETS.
Nov. 5	38	7,0	21	39	24,0	40	38,0	23,96	2	1,34	30½ S	♑ *Capricorni.*
	43	42,8	21	45	16,0	46	46,0	16,11	2	1,55	51½ S	*γ Gruis.*
	2	13,8	22	3	27,4	4	36,0	27,62	1	1,7	7¼ S	♑ *Pegasi.*
	48	34,0	22	49	59,0	51	22,0	59.20	2	1,1	42½ S	*Fomalhaut.*
	56	53,0	22	58	9,0	59	22,0	8,98	2	1,25	1¼ N	*α Pegasi.*
6	43	22,5	14	44	39,2	45	52,4					⊙ 1 L.
	45	37,0	14	46	53,0	48	8,5	46,14	1	0,84	- - -	⊙ 2 L
	31	9,0	21	32	26,0	-	-	26,02	1	1,35	30½ S	*γ Capricorni.*
	38	8,7	21	39	25,0	40	39,0	25,14	1	1,23	30½ S	♑ *Capricorni.*
	43	44,0	21	45	17,8	46	47,0	17,51	1	1,23	51½ S	*γ Gruis.*
	-	-	21	58	53,5	0	4,0	53,44	4	1,32	14½ S	*α Aquarii.*
	2	15,0	22	3	29,0	4	39,5	28,84	1	1,1	7¼ S	♑ *Pegasi.*
	13	29,0	22	14	43,0	15	53,5	42,79	4	1,34	15½ S	*γ Aquarii.*

In the YEAR M.DCCCXIV.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock. +	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
Nov. 11	3	34,4	15	4	52,0	6	6,4					
	5	50,0	15	7	8,0	8	22,2	59,82	1	1,50	- - -	☉ 1 L.
	31	16,6	21	32	33,8	33	48,0					☉ 2 L.
	38	16,0	21	39	33,0	40	47,0	33,80	1	1,87	30½ S	*γ Capricorni.*
	43	51,7	21	45	25,0	46	55,0	33,0	1	1,57	30½ S	*δ Capricorni.*
	57	48,0	21	59	1,0	0	12,0	25,08	1	1,73	51⅓ S	*γ Gruis.*
	2	23,0	22	3	37,0	4	48,0	1,21	1	1,93	14¼ S	*α Aquarii.*
	13	37,0	22	14	51,0	16	1,0	36,97	1	2,0	7½ S	*β Pegasi.*
	20	49,6	22	22	3,0	23	13,8	50,71	1	1,85	15¼ S	*γ Aquarii.*
	27	22,2	22	28	36,0	29	46,0	3,06	3	1,6	14 S	*ζ Aquarii.*
								35,76	..	. . .	14½ S	*η Aquarii.*
12	7	40,0	15	8	57,0	10	11,4					
	9	56,0	15	11	13,5	12	28,0	5,32	1	1,70	- - -	☉ 1 L.
	57	50,0	21	59	3,0	0	14,0					☉ 2 L.
	13	38,0	22	14	52,4	16	3,0	3,21	1	2,0	14¼ S	*α Aquarii.*
	20	51,2	22	22	5,0	23	15,0	52,16	1	1,47	15½ S	*γ Aquarii.*
	27	24,4	22	28	38,0	29	48,0	4,76	1	1,6	14 S	*ζ Aquarii.*
	33	46,0	22	35	1,4	36	13,0	37,81	1	2,07	14¼ S	*η Aquarii.*
								1,17	..	. . .	8½ S	*ζ Pegasi.*
13	11	45,5	15	13	3,3	14	18,4					
	14	2,0	15	15	20,0	16	35,0	11,70	1	1,68	- - -	☉ 1 L.
	2	26,0	22	3	40,0	4	51,0					☉ 2 L.
	20	52,6	22	22	6,4	23	17,0	39,97	1	1,33	7¼ S	*θ Pegasi.*
	27	25,6	22	28	39,2	29	50,0	6,31	1	1,6	14 S	*ζ Aquarii.*
	33	48,0	22	35	3,0	36	14,4	39,21	1	1,47	14¼ S	*η Aquarii.*
	48	47,0	22	50	12,0	-	-	2,85	1	1,67	8¾ S	*ζ Pegasi.*
	57	6,0	22	58	22,0	59	35,0	12,20	4	1,67	43½ S	*Fomalhaut.*
								21,98	4	1,79	1¼ N	*α Pegasi.*

IMMERSION of JUPITER's *third* Satellite.
Time by Clock (S.) 7ʰ 43′ 15″. Mean Time 16ʰ 10′ 46″,08.
Planet low, but clear: Observation good.

14	15	52,3	15	17	10,0	18	25,0			+		
	18	9,0	15	19	27,0	20	42,0	18,55	1	1,95	- - -	☉ 1 L.
	2	28,0	22	3	41,4	4	52,0					☉ 2 L.
	20	54,0	22	22	8,0	23	19,0	41,42	1	1,47	7¼ S	*θ Pegasi.*
	27	27,0	22	28	40,6	29	51,2	7,06	1	1,67	14 S	*ζ Aquarii.*
	33	49,0	22	35	4,4	36	16,0	40,56	1	1,33	14¼ S	*η Aquarii.*
	48	48,5	22	50	14,0	51	35,6	4,20	1	1,33	8¾ S	*ζ Pegasi.*
	57	7,7	22	58	23,5	59	36,5	13,85	1	1,75	43¼ S	*Fomalhaut.*
								23,56	1	1,6	1¼ N	*α Pegasi.*

A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.

15	-	-	15	21	17,0	22	32,0			+		
	22	16,0	15	23	34,5	24	48,0	25,62	1	0,67	- - -	☉ 1 L.
	27	28,6	22	28	42,0	29	52,6					☉ 2 L.
	33	50,5	22	35	5,8	36	17,3	42,01	1	1,47	14¼ S	*η Aquarii.*
	48	49,6	22	50	15,0	51	37,0	5,60	1	1,4	8¾ S	*ζ Pegasi.*
	57	9,0	22	58	25,0	59	38,0	14,98	1	1,17	43½ S	*Fomalhaut.*
								24,98	1	1,4	1¼ N	*α Pegasi.*
16	24	7,0	15	25	25,0	26	40,0					
	26	25,0	15	27	43,0	28	57,0	33,83	1	1,01	- - -	☉ 1 L.
	2	30,0	22	3	44,0	4	55,0					☉ 2 L.
	20	56,0	22	22	10,0	23	20,5	43,97	2	1,26	7¼ S	*θ Pegasi.*
	33	52,0	22	-	-	36	18,0	9,91	2	0,96	14 S	*ζ Aquarii.*
	48	50,4	22	50	16,0	51	38,0	6,50	1	1,1	8¾ S	*ζ Pegasi.*
	57	10,2	22	58	26,0	-	-	15,93	1	0,93	43¼ S	*Fomalhaut.*
								26,01	1	1,10	1¼ N	*α Pegasi.*
17	28	16,0	15	29	34,2	30	49,0					
	30	33,0	15	31	52,0	33	7,0	42,86	1	0,93	- - -	☉ 1 L.
	13	45,0	22	14	59,0	16	9,5					☉ 2 L.
	20	57,5	22	22	11,5	23	22,0	58,84	4	1,12	15½ S	*γ Aquarii.*
	33	53,5	22	35	8,0	36	19,0	11,34	1	1,4	14 S	*ζ Aquarii.*
								7,57	1	1,25	8¾ S	*ζ Pegasi.*

In the YEAR M.DCCCXIV.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names* or *Characters* of the STARS AND PLANETS.
Nov. 17	57	11,0	22	58	27,0	59	40,0	26,98	1	+0,9	1¼ N	*α Pegasi.*
18	-	-	15	-	-	-	-	-	..	...	- - -	⊙ 1 L.
	-	-	15	36	2,0	37	17,5	-	..	...	- - -	⊙ 2 L.
	13	46,6	22	15	0,0	16	11,0	0,11	1	1,37	15½ S	*γ Aquarii.*
	20	59,0	22	22	13,0	23	23,5	12,84	1	1,50	14 S	*ζ Aquarii.*
	27	32,0	22	28	46,0	29	56,0	45,71	3	1,2	14½ S	*η Aquarii.*
	-	-	22	50	18,5	51	41,0	18,72	2	1,37	43½ S	*Fomalhaut.*
	57	12,0	22	58	28,0	59	41,0	27,98	1	1,0	1½ S	*α Pegasi.*
19	36	37,0	15	37	55,2	39	10,4					⊙ 1 L.
	38	55,4	15	40	13,0	41	29,0	4,34	2	1,49	- - -	⊙ 2 L.
	13	47,8	22	15	2,0	16	13,0	1,91	1	1,73	15½ S	*γ Aquarii.*
	21	1,0	22	22	14,8	23	25,0	14,61	1	1,77	14 S	*ζ Aquarii.*
	27	34,0	22	28	47,6	29	58,0	47,51	1	1,87	14½ S	*η Aquarii.*
	33	56,0	22	35	10,8	36	22,0	10,65	2	1,38	3½ S	*ζ Pegasi.*
	-	-	22	50	20,0	51	42,5	20,22	1	1,5	43½ S	*Fomalhaut.*
	56	24,0	22	57	46,0	59	6,0	46,30	..	...	14½ N	*β Pegasi.*

IMMERSION of a TELESCOPIC STAR behind the ☽'s dark Limb.
Time by Clock (S.) 23h 0′ 22″. Apparent Time 7h 18′ 48″.
Moon high and clear: Observation good.

20	40	49,0	15	42	7,5	43	22,5			+		
	43	7,0	15	44	25,2	45	38,4	16,33	1	1,49	- - -	⊙ 1 L.
	19	42,0	22	20	59,2	22	13,3	59,32	..	...	25½ S	⊙ 2 L.
	-	-	22	28	49,0	29	59,5	48,94	1	1,45	14½ S	☽ 1 L. 6h 22′ 21″,89 mean Time.
	48	56,0	22	50	21,8	51	44,0	21,73	1	1,65	43½ S	*η Aquarii.*
	56	25,4	22	57	48,0	59	7,4	48,0	1	1,6	14½ N	*Fomalhaut.*
												β Pegasi.

A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.

21	45	1,5	15	46	20,0	47	35,0			+		
	47	20,4	15	48	38,0	49	53,0	28,99	1	1,36	- - -	⊙ 1 L.
	13	51,2	22	15	5,0	16	16,0	5,01	2	1,56	15½ S	⊙ 2 L.
	21	4,0	22	22	18,0	23	28,0	17,71	2	1,53	14 S	*γ Aquarii.*
												ζ Aquarii.
22				Cloudy.								
23	-	-	15	-	-	-	-					
	55	45,4	15	-	-	58	22,8	-	..	...	- - -	⊙ 1 L.
	56	30,0	22	57	52,8	59	12,0	52,70	3	2,09	14½ N	⊙ 2 L.
												β Pegasi.
24	57	43,5	15	59	2,0	0	18,0					
	0	2,0	16	1	21,3	2	37,0	11,64	3	1,40	- - -	⊙ 1 L.
												⊙ 2 L.
25				Cloudy.								
26				Cloudy.								
28				Cloudy.								
29	-	-	16	20	29,4	21	45,5					
	21	29,0	16	22	49,0	24	5,0	38,98	5	1,63	- - -	⊙ 1 L.
	27	50,0	22	29	4,0	30	14,8	3,91	9	1,68	14½ S	⊙ 2 L.
	49	11,5	22	50	37,0	51	59,0	36,95	9	1,69	43½ S	*η Aquarii.*
	56	40,2	22	58	3,0	59	22,2	2,90	6	1,7	14½ N	*Fomalhaut.*
												β Pegasi.

IMMERSION of JUPITER's *fourth* Satellite.
Time by Clock (S.) 8h 0′ 22″. Mean Time 15h 24′ 30″,75.
Planet high and clear: Moonlight: Observation satisfactory.

In the YEAR M.DCCCXIV.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	Names or Characters of the STARS AND PLANETS.
Nov. 30	23	30,0	16	24	48,5	26	5.0			+		
	25	49.0	16	27	9,0	28	25,0	58,76	1	1,78	. . .	⊙ 1 L.
	49	13.0	22	-	-	52	0,4	38,36	1	1,45	43¼ S	⊙ 2 L.
	56	41,8	22	53	4,5	59	24,0	4,40	1	1,6	14¼ N	*Fomalhaut.*
	30	55,0	23	33	36,0	36	13,4	36,08	..	...	30½ N	β *Pegasi.*
	0	44,0	*0	2	8.0	3	27,6	- -	..	...	15 N	α *Andromedæ.*
	5	43,4	0	6	59,0	8	12,0	59,08	..	...	1¼ N	γ *Pegasi.*

IMMERSION of JUPITER'S *first* Satellite.
Time by Clock (S.) 9h 40′ 32″,5. Mean Time 17h 0′ 27″,16.
Planet at a convenient altitude: flying Clouds, and Dew: Moonlight: Observation otherwise good.

DEC. 1	Wound up the Clock: Arc of Vibration 1°: 37′.											
	49	14,8	22	50	40,0	52	2,0	40,03	1	+ 1,7	43½ S	*Fomalhaut.*
	56	44,0	*22	58	6,5	59	25,5	- -	1	1,85	14½ N	β *Pegasi.*
	0	45,3	*0	2	10,0	3	29,0	- -	1	1,95	15 N	α *Andromedæ.*
	5	45.0	0	7	1,0	8	13,5	0,85	1	1,7	1½ N	γ *Pegasi.*
	31	13,3	0	33	23,0	35	28,0	23,15	..	...	42½ N	α *Cassiopeiæ.*
	39	3,3	0	41	18,0	43	27,0	17.87	..	...	44 N	η *Cassiopeiæ.*
	46	31,0	0	48	57.0	51	17,0	56,90	..	...	46½ N	γ *Cassiopeiæ.*
	1	13,0	1	2	42,0	4	8,0	42,11	..	...	21½ N	β *Andromedæ.*
	-	-	1	17	8,0	19	26,0	7,86	..	...	46¼ N	δ *Cassiopeiæ.*
2	32	10,0	16	33	29,3	34	46,5					
	34	30,0	16	-	-	*37	7,0	. .	..	...	- - -	⊙ 1 L.
	49	16,0	22	50	42,0	52	4.0	41,83	1	1,73	43½ S	⊙ 2 L.
	56	45.0	*22	58	8,5	59	27,0	- -	1	1,25	14¼ N	*Fomalhaut.*
	0	47,9	*0	2	11.2	3	30,4	- -	1	1,55	15 N	β *Pegasi.*
	5	46,5	0	7	2.3	8	15,0	2,25	1	1.43	1½ N	α *Andromedæ.*
	31	15,3	0	33	25,0	35	29,6	25,05	1	1,87	42½ N	γ *Pegasi.*
	39	5,2	0	41	19,4	43	28,8	19,50	1	1.7	44 N	α *Cassiopeiæ.*
	1	15,0	1	2	44,0	4	10,2	44,16	1	2,07	21½ N	η *Cassiopeiæ.*
												β *Andromedæ.*
3	36	31,5	16	37	51,0	39	8,0					
	38	52,0	*16	40	11,4	*41	28,2	. .	..	...	. . .	⊙ 1 L.
												⊙ 2 L.

P. M. Examined the Line of Collimation and Meridian adjustment,—found the Instrument a little out.—Adjusted it.

	56	47,0	*22	58	11.0	59	29,0	- -	..	...	14¼ N	β *Pegasi.*
	0	49,6	*0	2	13,0	3	32,7	- -	..	...	15 N	α *Andromedæ.*
	5	48,0	0	7	4,0	8	17,0	3,98	..	...	1¼ N	γ *Pegasi.*
	31	17,4	0	33	26,6	35	31,0	26,72	..	...	42½ N	α *Cassiopeiæ.*
	39	6,4	0	41	21,0	43	30,0	20.90	..	...	44 N	η *Cassiopeiæ.*
	46	34,0	0	49	0.3	51	20,6	0,20	..	...	46¼ N	γ *Cassiopeiæ.*
	1	16,6	1	2	46,0	4	11,6	45,91	..	...	21½ N	β *Andromedæ.*
	14	47,3	1	17	10,6	19	29,0	10,76	..	...	46¼ N	δ *Cassiopeiæ.*
4	40	54,0	16	42	18,4	43	30,0					
	43	14,0	*16	44	34,0	*45	51,0	- -	..	...	- - -	⊙ 1 L.
												⊙ 2 L.

The Observations marked thus (*) since the 30th ultimo, were taken by Reflection for the purpose of finding the level of the Axis—from the medium of these it appears the Western end of the Axis is, 0′,57 too high.

	5	50,0	0	7	6,0	8	18,4	5,83	1	+ 1,8	1¼ N	γ *Pegasi.*
	-	-	0	33	28,2	35	33,0	28,23	1	1.8	42½ N	α *Cassiopeiæ.*
	39	8,4	0	41	22,6	43	31,5	22,57	1	1,7	44 N	η *Cassiopeiæ.*
	14	49,0	1	17	12,2	19	30,6	12,39	1	1,63	46¼ N	δ *Cassiopeiæ.*

In the YEAR M.DCCCXIV.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.		*Names or Characters* of the STARS AND PLANETS.
DEC. 4	A. M. Lowered the Western end of the Axis a very little.												
										+			
5	45	16,0	16	46	36,0	47	52,8	46,47	..	...	- - -		⊙ 1 L.
	47	37,0	16	48	57,0	50	14,0						⊙ 2 L.
	0	52,7	0	-	-	3	36,5	26,21	2	1,72	15	N	α *Andromedæ.*
	5	52,0	0	7	7,5	8	20,0	7,48	1	1,7	1¼	N	γ *Pegasi.*
	28	7,0	0	30	8,0	32	5,3	8,24	..	...	39½	N	ζ *Cassiopeiæ.*
	-	-	0	33	30,0	35	35,0	30,13	1	1,9	42¾	N	α *Cassiopeiæ.*
	14	50,0	1	17	14,0	19	32,0	13,89	1	1,4	46¼	N	δ *Cassiopeiæ.*
6	-	-	16	50	59,4	52	16,0	- -	..	...	- - -		⊙ 1 L.
	-	-	*16	53	20,2	*54	37,0						⊙ 2 L.
	0	54,4	*0	2	18,0	3	37,6	- -	1	1,4	15	N	α *Andromedæ.*
	5	53,8	0	7	9,0	8	22,0	9,18	1	1,77	1¼	N	γ *Pegasi.*
	28	9,0	0	30	10,0	32	7,4	10,27	1	2,03	39½	N	ζ *Cassiopeiæ.*
	1	21,3	*1	2	51,6	4	17,6	- -	2	2,1	21¼	N	β *Andromedæ.*
	14	52,0	1	17	16,0	19	34,0	15,89	1	2,0	46¼	N	δ *Cassiopeiæ.*
	* Western end of the Axis 0',44 too high.												
7	54	4,0	16	55	23,0	56	40.0	- -	..	...	- - -		⊙ 1 L.
	56	25,0	*16	57	44,7	*59	1,0						⊙ 2 L.
	Western end of the Axis 0',17 too high.												
	30	15,0	23	32	0,2	33	41,0	0,08	..	...	32½	N	λ *Andromedæ.*
	5	55,0	0	7	10,5	8	24,0	10,73	1	1,57	1¼	N	γ *Pegasi.*
	12	13,0	0	13	27,2	14	39,0	27,31	..	...	23	S	ι *Ceti.*
	39	13,3	0	41	28,0	Cloudy.		27,83	1	1,3	44	N	η *Cassiopeiæ.*
8	58	28,0	16	59	48,2	1	5,2	58,59	..	...	- - -		⊙ 1 L.
	0	49,0	17	2	9,0	3	26,0						⊙ 2 L.
	Eastern end of the Axis 0',10 too high.												
	IMMERSION of JUPITER's *second* Satellite. Time by Clock (8.) 9h 51'. Mean Time 16h 39' 11",89. Planet high: flying Clouds: Observation otherwise good.												
9	-	-	17	4	13,0	5	29,3	- -	..	...	- - -		⊙ 1 L.
	5	14,0	*17	6	34,4	*7	50,5						⊙ 2 L.
	14	57,0	1	17	21,2	19	40,0	21,24	3	1,8	46¼	N	δ *Cassiopeiæ.*
	46	40,2	1	47	58,0	49	13,3	58,13	..	...	7	N	β *Arietis.*
	54	29,2	1	56	7,3	57	42,0	7,40	..	...	28¼	N	γ *Andromedæ.*
	58	58,0	2	0	18,0	1	34,0	17,77	..	...	9¼	N	α *Arietis.*
10	7	18,0	17	8	38,5	9	55,0	- -	..	...	- - -		⊙ 1 L.
	9	40,0	*17	10	59,2	*11	16,4						⊙ 2 L.
	Eastern end of the Axis 0',45 too high.												
11	-	-	17	13	4,0	14	21,2	14,97	..	...	- - -		⊙ 1 L.
	14	6,0	17	15	25,6	16	43,0						⊙ 2 L.
	1	3,4	0	-	-	3	45,8	26,21	5	1,72	15	N	α *Andromedæ.*
	1	30,8	*1	3	1,0	4	26,4	- -	5	1,83	21¼	N	β *Andromedæ.*
	15	0,5	1	17	24,0	19	42,8	24,91	2	1,51	46¼	N	δ *Cassiopeiæ.*
	59	1,8	2	0	21,0	1	37,7	21,14	2	1,75	9¼	N	α *Arietis.*

In the YEAR M.DCCCXIV.

DAY of the MONTH.	I. Wire.	Meridian.	III. Wire.	Reduction of Wires.	No. of Days	Rate of Clock.	Zenith Distance.	*Names* or *Characters* of the STARS and PLANETS.
	M S	H M S	M S	S				
Dec. 11	Western end of the Axis 0',68 too high.							
	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right. Lengthened the Pendulum 2 Divisions.							
12	13 56,5	17 15 17,2	16 34,0	- -	..	...	- - -	⊙ 1 L.
	16 18,8	*17 17 39,3	*18 55,5					⊙ 2 L.
	Eastern end of the Axis 0',25 too high.							
	28 48,3	23 30 28,0	32 3,4	27,90	..	...	29½ N	ι *Andromedæ.*
	29 18,0	0 31 27,3	33 32,0	27,47	..	...	42½ N	α *Cassiopeiæ.*
	37 8,0	0 39 22,0	41 32,0	22,30	..	...	44 N	η *Cassiopeiæ.*
	44 35,6	0 47 1,0	- -	1.08	..	...	46¾ N	γ *Cassiopeiæ.*
	59 18,0	1 0 47,0	2 13,0	46,98	..	...	21½ N	β *Andromedæ.*
13	18 21,0	17 19 41,6	20 59,0	- -	..	...	- - -	⊙ 1 L.
	20 44,0	*17 22 5,0	*23 21,0					⊙ 2 L.
	Western end of the Axis 0',15 too high.—The Axis may be considered level.							
	3 50,0	0 5 6,0	6 19,0	5,98	..	+ ...	1¼ N	γ *Pegasi.*
	26 5,0	0 28 6,6	30 4,0	6,72	..	...	39¼ N	ζ *Cassiopeiæ.*
	37 8,4	0 39 22,5	41 32,4	22,75	1	0,43	44 N	η *Cassiopeiæ.*
	44 35,0	0 47 1,5	49 21,5	1,27	1	0,05	46¼ N	γ *Cassiopeiæ.*
	12 48,4	1 15 12,3	17 30,4	12,24	1	0,37	46¼ N	δ *Cassiopeiæ.*
	44 32,0	1 - -	47 5,5	50,26	..	...	7 N	β *Arietis.*
	52 21,0	1 53 59,0	55 33,0	58,95	..	...	28¼ N	γ *Andromedæ.*
	56 49,0	1 58 9,0	59 26,0	9,04	..	...	9¼ N	α *Arietis.*
14		Cloudy.						
15	27 13,3	17 28 33,3	- -	- -	..	...	- - -	⊙ 1 L.
16	31 39,0	17 32 59,0	34 16,3	10,66	..	...	- - -	⊙ 1 L.
	34 2,0	17 - -	36 39,0					⊙ 2 L.
	Wound up the Clock: Arc of Vibration 1° 38',5.							
	58 51,5	0 0 15,0	1 35,0	14,93	..	+ ...	15 N	α *Andromedæ.*
	3 51,0	0 5 7,0	6 20,0	6,98	3	0,33	1¼ N	γ *Pegasi.*
	26 6,3	0 28 8,2	30 5,0	8,09	3	0,43	39¼ N	ζ *Cassiopeiæ.*
	- -	0 31 29,0	33 34,0	29,27	4	0,46	42½ N	α *Cassiopeiæ.*
	37 9,8	0 39 23,4	41 33,0	23,57	3	0,27	44 N	η *Cassiopeiæ.*
	44 36,0	0 47 2,4	49 22,2	2,15	3	0,23	46¼ N	γ *Cassiopeiæ.*
17	36 5,5	17 - -	38 43,0	37,17	..	...	- - -	⊙ 1 L.
	38 28,0	17 39 47,8	41 5,0					⊙ 2 L.
	58 52,0	0 - -	1 35,4	15,31	1	0,45	15 N	α *Andromedæ.*
	3 51,5	0 5 7,2	6 20,4	7,30	1	0,33	1¼ N	γ *Pegasi.*
18	40 32,0	17 41 32,4	43 9,6	3,59	..	...	- - -	⊙ 1 L.
	42 54,4	17 44 15,0	45 32,0					⊙ 2 L.
	29 20,0	0 31 30,0	33 35,0	30,07	2	0,5	42½ N	α *Cassiopeiæ.*
	37 10,0	0 39 24,4	41 34,0	24,50	2	0,45	44 N	η *Cassiopeiæ.*
	44 35,8	1 - -	47 7,0	51,91	5	0,35	7 N	β *Arietis.*
	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.							

Observed TRANSITS

OF THE

FIXED STARS AND PLANETS

OVER THE

MERIDIAN.

In the YEAR M.DCCCXV.

DAY OF THE MONTH.	I. Wire. M	S	Meridian. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names* or *Characters* of the STARS AND PLANETS.
										+		
JAN. 1	42	45,2	18	44	5,0	45	22,5					
	45	8,2	18	46	28,3	47	45,0	16,49	1	0,37	- - -	⊙ 1 L.
	59	25,0	1	0	55,0	2	20,0	54,78	1	0,03	21¼ N	⊙ 2 L.
	44	38,3	1	45	57,3	47	12,0	56,98	1	0,20	7 N	β *Andromedæ.*
	52	28,0	1	54	6,6	55	40,0	6,25	1	0,2	28½ N	β *Arietis.*
	56	57,0	1	58	16,0	59	33,0	16,27	1	0,0	9½ N	γ *Andromedæ.*
												α *Arietis.*

Immersion of Jupiter's *first* Satellite.
Time by Clock (S.) 8h 14′ 43″,5. Mean Time 13h 30′ 48″,99.
Planet low: ♑ up and near: thin Haze over ♃: the Observation of little value in consequence.

A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.

Wound up the Clock: Arc of Vibration 1°: 37′,5.

2	47	10,5	18	48	30,5	49	48,0			+		⊙ 1 L.
	49	32,0	18	50	53,0	52	10,3	41,63	1	0,14	- - -	⊙ 2 L.
	59	25,4	1	0	55,3	2	20,5	55,26	1	0,4	21¼ N	β *Andromedæ.*
	29	59,4	1	-	-	34	38,0	17,86	1	0,35	71½ S	*Achernar.*
	44	39,0	1	45	57,4	47	12,2	57,08	1	0,33	7 N	β *Arietis.*
	-	-	1	54	6,7	55	40,5	6,46	1	0,2	28½ N	γ *Andromedæ.*
	56	57,4	1	58	16,5	59	33,7	16,80	1	0,53	9½ N	α *Arietis.*

Immersion of Jupiter's *second* Satellite.
Time by Clock (S.) 8h 22′. Mean Time 13h 34′ 8″,38.
Planet low, and near the ♑: a thin Haze also over ♃: Observation not satisfactory.

3	51	35,4	18	52	56,0	54	12,4			+		
	53	57,5	18	55	18,0	56	35,0	6,91	1	0,2	- - -	⊙ 1 L.
	44	39,6	1	-	-	47	12,6	57,67	1	0,5	7 N	⊙ 2 L.
	52	28,4	1	54	6,8	-	-	6,67	1	0,1	28¼ N	β *Arietis.*
	56	57,6	1	58	17,0	59	33,8	17,12	1	0,27	9½ N	γ *Andromedæ.*
	29	31,5	3	31	19,5	33	3,7	19,58	. .	. . .	24¼ N	α *Arietis.*
	36	41,4	3	38	2,0	39	18,0	1,67	. .	. . .	10½ N	δ *Persei.*
												Brightest in Pleiades.

In the YEAR M.DCCCXV.

DAY of the MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock. +	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
JAN. 4	56	0,0	18	57	20,4	58	37,4	30,88	1	0,27	- - -	⊙ 1 L.
	58	22,2	18	59	42,0	0	59,0					⊙ 2 L.
	52	28,0	1	54	6,4	55	40,0	6,36	1	0,4	28¾ N	γ *Andromedæ.*
	56	57,2	1	58	17,0	59	33,3	16,90	1	0,3	9½ N	α *Arietis.*
	9	24,0	2	11	24,2	13	20,0	24,27	..	...	65½ S	Φ *Eridani.*
	34	0,3	2	35	14,0	36	25,0	14,04	..	...	10½ S	γ *Ceti.*
	39	16,0	2	40	38,0	41	57,0	37,97	..	...	13½ N	α *Muscæ.*
	56	5,4	2	57	41,8	59	14,0	41,46	..	...	27¼ N	*Algol.*
5	0	24,0	19	1	44,4	3	1,5	54,75	1	0,05	- - -	⊙ 1 L.
	2	46,0	19	4	6,3	5	23,0					⊙ 2 L.
6	4	48,2	19	6	8,4	7	25,0	18,88	1	0,63	- - -	⊙ 1 L.
	7	9,0	19	8	30,0	-	-					⊙ 2 L.
	44	39,0	1	45	57,0	47	12,3	57,36	2	−0,03	7 N	β *Arietis.*
	22	28,2	1	54	6,0	55	40,0	6,0	2	+0,07	28¾ N	γ *Andromedæ.*
	56	57,0	1	58	17,0	59	33,0	16,77	2	−0,17	9½ N	α *Arietis.*
	39	16,0	2	40	38,0	41	57,2	37,87	2	+0,03	13¼ N	α *Muscæ.*
	50	58,4	2	52	59,5	54	56,0	59,53	2	−0,06	39¼ N	γ *Persei.*
	56	5,3	2	57	41,8	59	14,0	41,41	2	0,01	27¼ N	*Algol.*
7	-	-	19	10	32,8	11	49,0	42,45	1	+0,47	- - -	⊙ 1 L.
	11	33,0	19	12	53,4	14	10,0					⊙ 2 L.
	44	39,3	1	-	-	47	13,0	57,67	1	0,5	7 N	β *Arietis.*
	52	28,8	1	54	6,6	55	40,6	6,60	1	0,6	28¾ N	γ *Andromedæ.*
	56	57,3	1	58	17,2	59	33,3	17,02	1	0,27	9½ N	α *Arietis.*
	9	24,2	2	11	24,4	13	20,3	24,50	2	0,12	65½ S	Φ *Eridani.*
	34	1,0	2	35	14,4	-	-	14,49	2	0,28	10½ S	γ *Ceti.*
	10	50,0	3	12	42,0	14	30,2	41,99	..	...	36¼ N	*Algenib.*
	29	32,0	3	31	19,7	33	4,0	19,90	5	0,06	34½ N	δ *Persei.*
	36	42,0	3	38	2,4	39	18,5	2,38	5	0,10	10½ N	*Brightest in Pleiades.*
8	13	35,0	19	-	-	-	-	4,76	1	0,29	- - -	⊙ 2 L.
	-	-	19	17	15,9	18	31,4					⊙ 1 L.
	52	28,7	1	54	7,0	55	41,0	6,88	1	0,23	28¾ N	γ *Andromedæ.*
	56	57,3	1	58	17,0	59	34,0	16,72	1	0,17	9½ N	α *Arietis.*
	34	1,2	2	35	15,0	36	25,0	14,76	1	0,4	10½ S	γ *Ceti.*
	39	16,4	2	40	39,0	41	58,0	38,94	2	0,36	13¼ N	α *Muscæ.*
	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.											
9	17	57,4	19	19	17,2	20	34,0	26,58	1	0,28	- - -	⊙ 1 L.
	20	18,8	19	21	39,0	22	55,0					⊙ 2 L.
	52	29,0	1	54	7,2	-	-	7,17	1	+0,25	28¾ N	γ *Andromedæ.*
	56	58,0	1	-	-	59	34,0	17,55	1	0,35	9½ N	α *Arietis.*
	9	24,4	2	11	24,8	13	20,0	24,67	2	0,05	65½ S	Φ *Eridani.*
	-	-	2	35	15,3	36	25,5	15,65	1	0,40	10½ S	γ *Ceti.*
	39	17,0	2	40	39,3	41	58,2	39,02	1	0,37	13¼ N	α *Muscæ.*
10	22	19,6	19	23	39,0	-	-	- -	-	...	- - -	⊙ 1 L.
	56	58,0	1	58	17,3	59	34,0	17,33	1	−0,0	9¼ N	α *Arietis.*
	34	1,0	2	35	15,3	36	25,5	14,99	1	0,0	10½ S	γ *Ceti.*
	39	17,0	2	40	39,0	41	58,0	38,85	1	0,17	13¼ N	α *Muscæ.*
	50	59,0	2	53	0,3	54	57,0	0,33	4	+0,1	39¼ N	γ *Persei.*
	56	6,0	2	57	42,0	59	15,0	41,96	4	0,16	27¼ N	*Algol.*
	10	50,0	3	12	42,2	14	29,0	41,71	3	0,11	36¼ N	*Algenib.*
	29	32,0	3	31	19,9	33	4,0	20,05	3	0,02	34¼ N	δ *Persei.*
	36	42,0	3	38	2,7	39	19,0	2,43	3	0,09	10½ N	*Brightest in Pleiades.*
11	26	40,5	19	28	0,0	29	16,5	10,49	1	0,40	- - -	⊙ 1 L.
	29	2,0	19	30	21,3	31	38,0					⊙ 2 L.
	52	29,0	1	54	7,0	55	40,0	6,70	2	−0,05	28¼ N	γ *Andromedæ.*
	56	58,0	1	58	17,0	59	34,2	17,02	1	0,03	9½ N	α *Arietis.*
	9	24,4	2	11	25,0	13	20,5	24,90	2	0,11	65½ S	Φ *Eridani.*
	34	1,0	2	35	15,0	36	25,4	14,82	1	0,13	10½ S	γ *Ceti.*
	39	17,0	2	40	39,0	41	58,0	38,85	1	0,0	13¼ N	α *Muscæ.*

In the YEAR M.DCCCXV.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	Names or Characters of the STARS AND PLANETS.
JAN. 11	50	59,0	2	53	0,2	54	57,0	0,28	1	−0,03	39½ N	*γ Persei.*
	56	6,0	2	57	42,2	59	15,0	42,06	1	+0,07	27¼ N	*Algol.*
12	31	2,0	19	32	21,8	33	37,0	21,49	1	0,70	- - -	⊙ 1 L.
	33	23,0	19	34	42,0	-	-					⊙ 2 L.
	9	25,0	2	11	25,8	13	21,0	25,35	1	0,47	65½ S	*Φ Eridani.*
	34	1,3	2	35	15,0	36	25,8	14,74	1	0,23	10½ S	*γ Ceti.*
	39	17,0	2	40	39,2	41	58,2	38,07	1	0,13	13½ N	*α Muscæ.*
	50	59,0	2	53	0,5	54	57,2	0,48	1	0,17	39½ N	*γ Persei.*
	56	6,0	2	57	42,0	59	15,0	41,94	1	0,07	27¼ N	*Algol.*
	10	50,2	3	12	43,0	-	-	43,0	2	0,25	36¼ N	*Algenib.*
13	35	22,0	19	36	41,3	37	58,0	51,64	1	0,25	- - -	⊙ 1 L.
	37	42,2	19	-	-	-	-					⊙ 2 L.
	52	23,0	1	54	7,2	-	-	7,17	2	0,05	28¾ N	*γ Andromedæ.*
	56	58,0	1	58	17,6	59	34,6	17,55	2	0,17	9¼ N	*α Arietis.*
	9	25,3	2	11	25,5	13	21,2	25,60	1	0,23	65½ S	*Φ Eridani.*
	34	2,0	2	35	15,3	36	26,0	15,36	1	0,40	10½ S	*γ Ceti.*
	39	17,0	2	40	39,4	41	58,0	39,22	1	0,0	13¼ N	*α Muscæ.*
	50	59,4	2	53	0,5	54	57,0	0,53	1	0,07	39¼ N	*γ Persei.*
	56	6,0	2	57	42,0	59	15,0	41,92	1	0,0	27¼ N	*Algol.*
	10	50,0	3	12	43,0	14	31,0	42,61	1	−0,1	36¼ N	*Algenib.*
14	39	41,0	19	41	0,4	42	15,5	10,59	1	0,15	- - -	⊙ 1 L.
	42	2,0	19	43	20,5	44	37,4					⊙ 2 L.
	9	25,4	2	11	25,7	13	21,3	25,70	1	+0,13	65½ S	*Φ Eridani.*
	34	2,2	2	35	15,0	36	26,0	15,26	1	−0,03	10½ S	*γ Ceti.*
	-	-	2	40	39,2	41	58,0	38,84	1	0,07	13½ N	*α Muscæ.*
	50	59,5	2	53	0,2	54	57,0	0,43	1	0,17	39¼ N	*γ Persei.*
	29	32,5	3	31	20,0	33	4,5	20,08	4	0,09	34½ N	*δ Persei.*
	56	43,0	3	38	3,0	39	20,0	3,08	4	0,18	10½ N	*Brightest in Pleiades.*
15	44	0,0	19	45	19,4	46	35,0	28,94	1	0,15	- - -	⊙ 1 L.
	46	20,0	19	47	39,0	48	55,4					⊙ 2 L.
	9	25,5	2	11	25,0	13	21,0	25,25	1	0,37	65½ S	*Φ Eridani.*
	39	17,0	2	40	39,0	41	58,2	38,87	1	0,0	13¼ N	*α Muscæ.*
	50	59,2	2	53	0,3	54	57,0	0,43	1	+0,1	39¼ N	*γ Persei.*
	56	6,3	2	57	42,6	59	15,2	42,38	2	0,37	27¼ N	*Algol.*
	-	-	3	12	43,0	14	31,0	42,85	2	0,0	36¼ N	*Algenib.*

IMMERSION of JUPITER's *first* Satellite.
Time by Clock (S.) 12h 57′ 15″. Mean Time 17h 17′ 30″,44.
Planet near the Zenith: Clear: Observation good.

A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.

16	Wound up the Clock: Arc of Vibration 1° 38′.											
	9	25,5	2	11	25,2	13	21,0	25,40	1	+0,13	65½ S	*Φ Eridani.*
	34	2,3	2	35	15,0	36	26,0	15,29	1	0,1	10½ S	*γ Ceti.*
	39	17,3	2	40	39,4	41	58,3	39,15	1	0,27	13¼ N	*α Muscæ.*
	50	59,0	2	53	0,2	54	57,0	0,40	1	−0,03	39¼ N	*γ Persei.*
	56	54,0	2	58	36,2	0	14,0	36,12	..	...	31½ N	*κ Persei.*
	10	50,0	3	12	43,0	14	31,0	42,61	1	0,0	36¼ N	*Algenib.*
	29	32,4	3	31	20,2	33	4,6	20,18	2	+0,03	34½ N	*δ Persei.*
	-	-	3	38	3,0	39	20,0	2,79	2	0,0	10½ N	*Brightest in Pleiades.*
17	52	35,4	19	53	55,0	55	10,6	4,92	..	0,62	- - -	⊙ 1 L.
	54	59,2	19	56	15,0	57	31,0					⊙ 2 L.
	34	2,0	2	35	15,2	-	-	15,39	1	−0,25	10½ S	*γ Ceti.*
	39	17,0	2	40	39,3	41	58,0	38,97	1	0,23	13¼ N	*α Muscæ.*
	50	59,5	2	53	0,6	54	57,0	0,61	1	+0,30	39¼ N	*γ Persei.*
	56	54,0	2	58	36,2	0	14,5	36,25	1	0,17	31¼ N	*κ Persei.*

In the YEAR M.DCCCXV.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	Names or Characters of the STARS AND PLANETS.
JAN. 18	56	52,0	19	58	11,4	59	27,0	20,54	1	— 0,68	. . .	⊙ 1 L.
	59	12,0	20	0	30,5	1	47,0					⊙ 2 L.
	34	2,4	2	35	15,4	36	26,0	15,53	1	+0,30	101 S	γ Ceti.
	39	17,0	2	40	30,3	41	58,0	38,97	1	0,0	13½ N	α Musc.
	50	59,0	2	53	0,7	54	37,4	0,63	1	0,0	39½ N	γ Persei.
	10	50,0	3	12	43,0	14	31,0	42,61	1	—0,10	36½ N	Algenib.
	29	32,5	3	31	21,0	33	4,7	21,21	2	+0,16	34½ N	δ Persei.
19	-	-	20	2	28,0	3	43,3	36,87	1	—0,73	. . .	⊙ 1 L.
	3	28,0	20	4	47,2	6	3,0					⊙ 2 L.
	33	20,2	2	34	37,4	35	50,0	37,61	..	. . .	3 S	☽ 1 L. 6h 40′ 51″,11 mean Time.
	39	17,2	2	40	39,6	41	58,4	39,30	1	+0,30	13½ N	α Musc.
20	5	23,0	20	6	42,3	7	58,0	51,87	1	0,20	. . .	⊙ 1 L.
	7	43,0	20	9	1,8	10	17,2					⊙ 2 L.
	-	-	2	35	15,4	36	26,3	15,51	2	0,08	10½ S	γ Ceti.
	39	17,3	2	40	40,0	41	59,0	39,87	1	0,66	13½ N	α Musc.
	50	59,5	2	53	0,8	54	37,4	0,81	2	0,10	39½ N	γ Persei.
	56	6,4	2	57	45,0	59	15,4	42,88	5	0,05	27½ N	Algol.
	10	50,0	3	12	42,8	14	31,0	42,51	2	0,03	36½ N	Algenib.
	27	42,8	3	29	1,0	30	15,0	0,67	..	. . .	1½ N	☽ 1 L. 7h 31′ 9″,22 mean Time.
	25	35,0	4	26	51,0	-	-	51,30	..	. . .	31½ N	Aldebaran.
22	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.											
23	18	5,0	20	19	23,5	20	39,0	32,18	3	+ 0,41	- - -	⊙ 1 L.
	20	23,0	20	21	41,4	22	56,3					⊙ 2 L.
	10	50,3	3	12	43,4	14	31,2	42,94	2	0,12	36½ N	Algenib.
	29	33,0	3	31	21,0	33	4,4	20,68	5	0,01	34½ N	δ Persei.
	36	43,0	3	38	2,2	39	20,0	2,19	7	0,11	10½ N	Brightest in Pleiades.
	42	58,0	3	44	4,2	45	27,0	3,99	..	. . .	18½ N	ζ Persei.
	-	-	3	47	1,0	48	32,8	0,86	..	. . .	26½ N	ε Persei.
	-	-	3	50	56,6	52	9,7	56,55	..	. . .	27 S	γ Eridani.
24	-	-	20	23	35,5	24	51,0	44,80	1	0,92	- - -	⊙ 1 L.
	24	35,6	20	25	54,0	27	9,0					⊙ 2 L.
	56	55,0	2	58	37,0	0	15,0	37,02	7	0,11	31½ N	κ Persei.
	10	50,7	3	12	43,8	14	31,3	43,49	1	0,30	36½ N	Algenib.
	29	33,0	3	31	21,0	33	4,8	20,78	1	0,13	34½ N	δ Persei.
	36	43,3	3	38	2,5	39	20,0	2,84	1	0,20	10½ N	Brightest in Pleiades.
	-	-	3	44	4,4	45	27,2	4,36	1	0,20	18½ N	ζ Persei.
	-	-	3	47	1,2	48	32,8	1,41	1	0,35	26½ N	ε Persei.
	49	41,0	3	50	57,0	52	10,0	56,76	1	0,35	27 S	γ Eridani.
	IMMERSION of JUPITER'S *first* Satellite. Time by Clock (S.) 9h 55′ 10″. Mean Time 13h 40′ 30″,74. Planet high: ☽ full: Flying Clouds: the Observation not satisfactory.											
25	26	29,0	20	27	47,0	29	2,0	56,25	1	+ 0,42	- - -	⊙ 1 L.
	28	47,0	20	30	5,0	31	20,0					⊙ 2 L.
	50	59,6	2	53	1,3	54	37,9	1,6	5	0,03	39½ N	γ Persei.
	56	7,0	2	57	45,4	59	16,0	43,16	5	0,11	27½ N	Algol.
	10	51,0	3	-	-	14	31,0	43,18	1	0,0	36½ N	Algenib.
	29	33,0	3	31	21,0	-	-	21,4	1	0,0	34½ N	δ Persei.
	36	43,0	3	-	-	39	20,4	3,19	1	0,05	10½ N	Brightest in Pleiades.
	41	39,2	3	44	5,0	45	27,4	4,99	1	0,40	18½ N	ζ Persei.
	49	41,0	3	50	57,8	52	10,0	56,87	1	0,07	27 S	γ Eridani.
	25	35,0	4	26	52,0	28	5,5	51,74	2	0,17	31½ N	Aldebaran.
26	30	39,0	20	31	58,0	33	12,8	6,16	1	0,04	- - -	⊙ 1 L.
	32	57,3	20	34	14,0	35	30,0					⊙ 2 L.

In the YEAR M.DCCCXV.

DAY OF THE MONTH.	I. Wire. M S	MERIDIAN. H M S	III. Wire. M S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
						+		
JAN. 27	34 49,0	20 36 7,2	37 22,2					
	37 7,0	20 38 25,0	39 40,0	16,10	1	0,64	- - -	⊙ 1 L.
	25 35,3	4 26 52,3	28 5,6	52,11	2	0,12	31 N	⊙ 2 L.
	- -	4 50 17,0	51 54,0	16,78	..	...	30½ N	*Aldebaran.*
	53 29,5	4 55 7,0	56 40,0	6,61	..	...	28 N	*ε Aurigæ.*
	2 51,2	5 4 36,4	6 17,0	36,60	..	...	33 N	*η Aurigæ.*
								Capella.
28	38 58,2	20 40 16,0	41 31,2					
	41 15,5	20 42 34,0	43 48,0	24,88	1	0,27	- - -	⊙ 1 L.
	10 51,2	3 12 44,0	14 31,6	43,78	3	0,13	36½ N	⊙ 2 L.
	29 33,3	3 31 21,8	- -	21,75	3	0,17	34½ N	*Algenib.*
	42 39,3	3 44 4,8	45 28,0	5,06	3	0,06	18½ N	*δ Persei.*
	25 36,0	4 26 53,0	28 6,0	52,74	1	0,60	31 N	*ζ Persei.*
	53 30,2	4 55 7,4	56 41,0	7,46	1	0,70	28 N	*Aldebaran.*
	2 51,4	5 4 37,0	6 17,6	36,86	1	0,47	33 N	*η Aurigæ.*
								Capella.
29	43 7,0	20 44 24,0	45 39,2					
	45 24,0	20 46 44,7	47 56,0	33,72	1	1,14	- - -	⊙ 1 L.
	29 33,3	3 31 22,0	33 5,0	21,63	1	0,10	34½ N	⊙ 2 L.
	36 43,5	3 38 2,8	39 20,8	4,05	1	0,10	10½ N	*δ Persei.*
	42 39,0	3 44 5,0	45 28,0	4,89	1	−0,03	18½ N	*Brightest in Pleiades.*
	25 36,0	4 26 53,0	28 6,0	52,74	1	0,0	31 N	*ζ Persei.*
	53 30,3	4 55 7,0	56 41,2	7,34	1	+0,30	28 N	*Aldebaran.*
								η Aurigæ.

A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.

						−		
30	47 14,0	20 48 31,0	49 46,2	46,05	1	0,47	- - -	⊙ 1 L.
	49 31,0	20 50 49,0	52 3,0					⊙ 2 L.
	29 33,3	3 - -	33 5,4	21,46	1	+0,2	34½ N	*δ Persei.*
	36 44,0	3 38 4,0	39 21,0	4,08	1	0,4	10½ N	*Brightest in Pleiades.*
	42 39,0	3 44 5,0	45 28,0	4,89	1	0,0	18½ N	*ζ Persei.*
	49 41,0	3 50 58,0	52 16,0	57,26	5	0,05	27 S	*γ Eridani.*
	25 36,2	4 26 53,0	28 6,3	52,87	1	0,17	31 N	*Aldebaran.*
	45 3,4	4 - -	47 55,0	30,99	..	...	20 N	*ι Aurigæ.*
	- -	4 50 16,8	51 54,0	16,67	1	0,10	30½ N	*ε Aurigæ.*
	53 30,0	4 - -	56 41,0	6,98	1	0,37	28 N	*η Aurigæ.*
	2 51,5	5 4 37,0	6 18,0	36,99	1	0,13	33 N	*Capella.*
31	51 20,0	20 52 37,0	53 52,0					
	53 37,0	20 54 55,3	56 9,2	46,01	1	−0,14	- - -	⊙ 1 L.
	29 33,0	3 31 21,0	33 5,3	21,13	1	0,13	34½ N	⊙ 2 L.
	45 26,3	3 47 59,0	- -	0,02	..	...	26½ N	*δ Persei.*
	49 41,2	3 - -	52 10,3	56,78	1	0,17	27 S	*ε Persei.*
								γ Eridani.

EMERSION of JUPITER's *third* Satellite.
Time by Clock (S.) 11h 15′ 53″,5. Mean Time 14h 33′ 29″,21.
Planet high and clear: ☽ up: Lightning at the time: Observation good.

IMMERSION of JUPITER's *first* Satellite.
Time by Clock (S.) 12h 15′ 39″. Mean Time 15h 33′ 4″,95.
Planet near the Zenith: Moonlight: Dew: Observation good.

						+		
FEB. 1	55 26,0	20 56 43,5	57 57,3	51,32	1	1,89	- - -	⊙ 1 L.
	57 42,5	20 58 59,0	0 14,0					⊙ 2 L.

Wound up the Clock: Arc of Vibration 1°: 37′,5.

						−		
	36 43,3	3 38 3,4	39 20,3	3,30	2	0,33	10½ N	*Brightest in Pleiades.*
	42 39,0	3 44 5,0	45 27,6	4,99	2	0,07	18½ N	*ζ Persei.*
	49 41,0	3 50 56,3	52 10,3	56,69	1	0,07	27 S	*γ Eridani.*

In the YEAR M.DCCCXV.

DAY OF THE MONTH.	I. Wire.	MERIDIAN.	III. Wire.	Reduction of Wires.	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
	M S	H M S	M S	S				
FEB. 1	25 35,4	4 26 52,0	28 6,0	51,86	2	0,11	3¼ N	*Aldebaran.*
	48 35,0	4 50 16,0	51 53,5	16,11	2	0,38	30½ N	*ε Aurigæ.*
	53 29,0	4 55 7,0	56 40,0	6,48	2	0,50	28 N	*η Aurigæ.*
2	59 30,2	20 0 48,0	2 2,0	59,80	1	+1,14	⊙ 1 L.	
	1 47,0	20 3 4,0	4 18,0				⊙ 2 L.	
	36 43,0	3 38 3,0	39 20,7	3,10	1	−0,10	10¼ N	*Brightest in Pleiades.*
	" "	3 47 1,3	48 33,0	1,32			20½ N	*ε Persei.*
	49 41,0	3 50 56,8	52 10,0	56,83	1	+0,07	27 S	*γ Eridani.*
	25 35,4	4 26 51,8	"	51,95	1	−0,10	3¼ N	*Aldebaran.*
	48 35,0	4 50 16,6	51 54,0	16,31	1	0,03	30½ N	*ε Aurigæ.*
	53 29,0	4 55 7,0	56 41,0	6,93	1	+0,33	28 N	*η Aurigæ.*
	5 58,0	5 " "	8 24,0	12,45	7	−0,05	21¼ S	*Rigel.*
	15 32,0	5 16 46,3	17 57,0	45,89	"	"	7 S	*γ Orionis.*
3	3 34,4	21 4 52,0	6 5,6	59,09	1	+0,41	⊙ 1 L.	
	5 50,0	21 7 7,7	8 22,0				⊙ 2 L.	
	42 38,5	3 44 4,5	45 27,3	4,54	2	0,22	18½ N	*ζ Persei.*
	49 41,2	3 50 57,0	52 10,4	56,67	1	0,23	27 S	*γ Eridani.*
	25 35,5	4 26 52,4	28 5,7	52,02	1	0,35	3¼ N	*Aldebaran.*

IMMERSION of JUPITER's *second* Satellite.
Time by Clock (S.) 9h 58′ 36″,5. Mean Time 13h 4′ 37″,84.
Planet high and clear: Observation good. This Eclipse 2′ later than the Ephemeris Time.

						+		
4	7 38,0	21 8 55,0	10 9,5	2,62	1	0,73	" " "	⊙ 1 L.
	9 54,0	21 11 10,5	12 25,0					⊙ 2 L.
	25 36,0	4 26 52,0	28 5,6	52,12	1	0,0	3¼ N	*Aldebaran.*
	45 3,6	4 46 30,4	47 55,0	30,73	2	0,1	20 N	*ι Aurigæ.*
	" "	4 50 16,0	51 54,0	16,22	2	0,15	30½ N	*ε Aurigæ.*
	53 29,4	4 55 7,0	56 40,8	7,0	2	0,04	28 N	*η Aurigæ.*

IMMERSION of JUPITER's *fourth* Satellite.
Time by Clock (S.) 12h 17′ 51″. Mean Time 15h 19′ 33″,20.
Planet near the *Zenith*: Clear: Observation good.

EMERSION of JUPITER's *fourth* Satellite.
Time by Clock (S.) 14h 44′ 42″,5. Mean Time 17h 46′ 0″,62.
Planet high: Twilight, and flying Clouds: Observation otherwise good.

						−		
5	11 40,0	21 12 57,0	14 10,2	4,64	1	0,08	" " "	⊙ 1 L.
	13 55,0	21 15 12,8	16 26,2					⊙ 2 L.
	45 4,0	4 46 31,0	47 55,3	31,21	1	+0,43	20 N	*ι Aurigæ.*
	48 35,0	4 50 16,0	51 54,0	16,01	1	0,0	30½ N	*ε Aurigæ.*
	53 30,0	4 55 7,0	56 41,0	6,98	1	0,23	28 N	*η Aurigæ.*
	5 58,0	5 7 12,0	8 24,0	12,22	3	0,0	21¼ S	*Rigel.*
	15 32,0	5 16 46,0	17 57,3	45,82	3	0,0	7 S	*γ Orionis.*
6	15 41,0	21 16 59,0	18 12,0	5,88	1	0,04	" " "	⊙ 1 L.
	17 57,0	21 19 14,0	20 28,0					⊙ 2 L.
	" "	4 26 52,0	28 5,4	51,83	2	0,05	3¼ N	*Aldebaran.*
	" "	4 46 31,0	47 55,2	30,93	1	−0,05	20 N	*ι Aurigæ.*
	48 35,2	4 50 16,0	51 54,0	16,06	1	0,0	30½ N	*ε Aurigæ.*
	53 29,8	4 55 6,8	56 41,0	7,05	1	0,13	28 N	*η Aurigæ.*
	5 58,0	5 7 12,0	8 24,0	12,22	1	0,0	21¼ S	*Rigel.*
	" "	5 16 46,0	17 57,0	45,78	1	0,15	7 S	*γ Orionis.*
7	19 42,2	21 20 59,0	22 13,0	6,29	1	0,01	" " "	⊙ 1 L.
	21 58,0	21 23 14,0	24 28,0					⊙ 2 L.
	25 35,0	4 26 52,0	28 5,0	51,50	1	0,2	3¼ N	*Aldebaran.*
	45 3,5	4 46 31,0	47 55,0	31,01	1	0,1	20 N	*ι Aurigæ.*
	48 34,8	4 50 16,0	51 54,0	16,19	1	0,13	30½ N	*ε Aurigæ.*
	53 29,0	4 55 7,0	56 40,7	7,38	1	0,43	28 N	*η Aurigæ.*

In the YEAR M.DCCCXV.

DAY. OF THE MONTH.	I. Wire.	MERIDIAN.	III. Wire.	Reduction of Wires.	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
	M S	H M S	M S	S				
FEB. 7		*IMMERSION of JUPITER's third Satellite.* Time by Clock (S.) 12h 53′ 20″,0. Mean Time 15h 43′ 9″,25. Planet in the Zenith: Clear: Observation good.						
		IMMERSION of JUPITER's first Satellite. Time by Clock (S.) 14h 37′ 2″,5. Mean Time 17h 26′ 34″,74. Planet high and clear: Twilight: Observation satisfactory.						
8	23 42,4	21 24 59,0	26 12,0			—		
	25 57,0	21 27 14,0	28 27,8	6,45	1	0,55	- - -	⊙ 1 L.
	- -	4 26 52,0	28 5,0	51,63	1	0,0	- - -	⊙ 2 L.
	45 3,0	4 46 30,8	47 55,0	30,78	1	0,23	3½ N	*Aldebaran.*
	48 34,2	4 50 16,0	51 53,6	15,94	1	0,33	20 N	*ι Aurigæ.*
	53 29,0	4 55 7,0	56 40,7	6,88	1	0,0	30½ N	*ε Aurigæ.*
	5 58,0	5 7 12,0	8 23,6	12,11	2	0,06	28 N	*η Aurigæ.*
	15 31,6	5 16 46,0	17 57,0	45,87	2	0,0	21½ S	*Rigel.*
							7 S	*γ Orionis.*
9	27 41,0	21 28 58,0	30 11,8					
	29 56,0	21 31 12,7	32 26,0	5,15	1	2,09	- - -	⊙ 1 L.
	25 35,0	4 26 51,7	28 5,0	51,60	1	0,15	3½ N	⊙ 2 L.
	45 3,0	4 46 30,0	47 55,0	30,35	1	0,27	20 N	*Aldebaran.*
	53 29,0	4 55 6,0	56 40,0	5,98	1	0,57	28 N	*ι Aurigæ.*
	5 57,6	5 7 12,0	8 23,9	11,95	1	0,23	21½ S	*η Aurigæ.*
								Rigel.
		IMMERSION of JUPITER's first Satellite. Time by Clock (S.) 9h 12′ 26″. Mean Time 11h 54′ 59″,62. Planet sufficiently high and clear: Observation good.						
10	31 39,5	21 32 56,0	34 10,0			+		
	33 55,0	21 35 10,6	36 25,0	3,47	1	0,22	- - -	⊙ 1 L.
	25 35,0	4 26 51,2	28 5,0	51,35	1	—0,17	3½ N	⊙ 2 L.
	45 3,0	4 46 30,0	47 55,0	30,38	1	0,0	20 N	*Aldebaran.*
	48 34,6	4 50 16,0	51 53,0	15,89	1	0,17	30½ N	*ι Aurigæ.*
	53 29,2	4 55 6,9	56 40,0	6,40	1	0,17	28 N	*ε Aurigæ.*
								η Aurigæ.
		IMMERSION of JUPITER's second Satellite. Time by Clock (S.) 12h 59′ 59″. Mean Time 15h 37′ 59″,42. Planet near the Zenith: the Air clear near ♈, but flying Clouds passing at times: Observation good.						
11	35 37,5	21 36 53,5	38 7,0			+		
	37 52,0	21 39 8,5	40 21,0	0,82	1	0,15	- - -	⊙ 1 L.
	45 3,0	4 46 30,0	47 55,0	30,35	1	0,0	20 N	⊙ 2 L.
	48 34,0	4 50 15,8	51 53,3	15,71	1	—0,37	30½ N	*ι Aurigæ.*
	53 29,0	4 55 6,0	56 40,0	5,98	1	0,17	28 N	*ε Aurigæ.*
	5 58,0	5 7 12,0	8 23,3	12,05	2	0,06	21½ S	*η Aurigæ.*
	15 31,0	5 16 45,0	17 56,0	44,74	3	0,29	7 S	*Rigel.*
	22 53,3	5 24 6,4	25 17,0	6,49	..	...	13½ S	*γ Orionis.*
	27 9,0	5 28 22,6	29 33,0	22,52	..	...	14½ S	*δ Orionis.*
	31 45,0	5 32 58,0	34 9,0	58,32	..	...	15½ S	*ε Orionis.*
								ζ Orionis.
12	39 34,0	21 40 50,3	42 3,5					
	41 48,2	21 43 4,0	44 18,0	57,27	1	+0,05	- - -	⊙ 1 L.
	5 57,0	5 7 11,6	8 23,0	11,52	1	—0,23	21½ S	⊙ 2 L.
	15 31,0	5 16 45,4	17 56,2	44,99	1	+0,20	7 S	*Rigel.*
	22 52,3	5 24 6,0	25 17,0	5,82	1	—0,20	13½ S	*γ Orionis.*
	27 9,0	5 28 22,0	29 33,0	22,22	1	0,20	14½ S	*δ Orionis.*
	31 45,0	5 32 58,0	34 9,0	58,32	1	0,0	15½ S	*ε Orionis.*
	45 28,0	5 46 42,2	47 53,3	42,15	..	...	6 S	*ζ Orionis.*
								α Orionis.

In the YEAR M.DCCCXV.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
FEB. 12	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.											
13	43	30,0	21	44	46,0	45	59,0	52,79	1	0,02	- - -	⊙ 1 L.
	45	44,2	21	47	0,0	48	13,0					⊙ 2 L.
	15	31,0	5	16	45,0	17	56,0	44,89	1	0,2	7 S	*γ Orionis.*
	22	52,0	5	24	6,0	25	17,0	5,77	1	0,1	13½ S	*δ Orionis.*
	27	9,0	5	28	22,0	29	33,0	22,22	1	0,0	14½ S	*ε Orionis.*
	-	-	5	32	58,0	34	8,8	58,03	1	0,1	15½ S	*ζ Orionis.*
	39	17,3	5	40	31,6	41	44,0	31,85	1	0,0	23° S	*κ Orionis.*
	45	28,0	5	46	42,0	47	59,0	41,75	1	0,17	6 S	*α Orionis.*
14	47	25,2	21	48	40,0	49	54,5	47,41	1	0,28	- - -	⊙ 1 L.
	49	38,3	21	50	54,0	52	7,6					⊙ 2 L.
	5	57,0	5	7	11,0	8	22,4	11,07	1	0,13	21½ S	*Rigel.*
	22	52,0	5	24	5,8	25	16,0	5,62	1	0,4	13½ S	*δ Orionis.*
	27	8,6	5	28	22,0	29	35,0	22,12	1	0,13	14½ S	*ε Orionis.*
	31	44,0	5	32	58,0	34	9,0	57,84	1	+0,1	15½ S	*ζ Orionis.*
	39	17,5	5	40	31,0	41	43,0	31,34	1	−0,47	23° S	*κ Orionis.*
	45	27,8	5	46	42,0	47	58,0	41,92	1	0,07	6 S	*α Orionis.*
15	5	56,4	5	7	11,0	8	23,0	11,07	1	0,0	21½ S	*Rigel.*
	15	30,7	5	16	45,0	16	56,0	44,89	2	0,15	7 S	*γ Orionis.*
	22	52,0	5	24	6,0	25	16,0	5,72	1	+0,20	13½ S	*δ Orionis.*
	27	8,4	5	28	22,0	29	32,8	22,02	1	−0,27	14½ S	*ε Orionis.*
	31	44,0	5	32	58,0	-	-	57,80	1	0,0	15½ S	*ζ Orionis.*
16	Wound up the Clock: Arc of Vibration 1° 30′.											
	5	56,6	5	7	10,8	8	23,0	11,02	1	0,0	21½ S	*Rigel.*
	22	52,0	5	24	6,0	25	15,8	5,67	1	0,07	13½ S	*δ Orionis.*
17	59	6,0	22	0	21,0	1	34,5	27,99	3	0,40	- - -	⊙ 1 L.
	1	19,5	22	2	34,0	3	48,0					⊙ 2 L.
	-	-	5	16	45,0	17	56,0	44,77	2	0,0	7 S	*γ Orionis.*
	22	52,0	5	24	6,0	25	16,4	5,83	1	+0,20	13½ S	*δ Orionis.*
	27	8,0	5	28	22,0	29	32,8	21,92	2	−0,06	14½ S	*ε Orionis.*
	31	44,0	5	32	58,0	-	-	57,80	2	0,06	15½ S	*ζ Orionis.*
	39	18,0	5	40	31,5	41	43,0	31,50	3	+0,11	23° S	*κ Orionis.*
	45	28,0	5	46	42,0	47	58,0	41,97	3	0,02	6 S	*α Orionis.*
18	2	59,5	22	4	15,0	5	27,4	21,08	1	−0,31	- - -	⊙ 1 L.
	5	12,0	22	6	27,0	-	-					⊙ 2 L.
	1	32,0	5	2	52,0	-	-	58,93	..	...	7½ N	☽ 1 L. 7h 0′ 46″,76 mean Time.
	5	57,0	5	7	11,0	8	23,0	11,22	2	+0,10	21½ S	*Rigel.*
	15	31,0	5	16	45,0	17	56,2	44,79	1	0,1	7 S	*γ Orionis.*
	31	44,7	5	32	58,0	34	9,0	58,24	1	0,25	15½ S	*ζ Orionis.*
	39	17,8	5	40	32,0	41	43,7	32,10	1	0,33	23° S	*κ Orionis.*
19	6	51,0	22	8	6,0	9	19,0	12,26	1	−0,02	- - -	⊙ 1 L.
	9	3,0	22	10	19,0	11	31,0					⊙ 2 L.
	5	57,0	5	-	-	8	23,0	11,45	1	0.0	21½ S	*Rigel.*
	22	53,0	5	24	6,6	25	17,0	5,95	2	+0.36	13½ S	*δ Orionis.*
	27	9,0	5	-	-	29	34,0	22,49	2	0.55	14½ S	*ε Orionis.*
	31	46,0	5	32	59,0	34	9,6	59,22	1	0.97	15½ S	*ζ Orionis.*
	39	18,0	5	40	32,0	41	44,0	32,23	1	0,17	23° S	*κ Orionis.*
	45	29,0	5	46	43,0	47	55,0	43,22	2	0.66	6 S	*α Orionis.*
	4	42,4	6	6	4,2	7	23,0	4,26	..	...	9½ S	☽ 1 L. 8h 9′ 49″,28 mean Time.
	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.											
20	10	43,0	22	11	57,5	13	10,2	3,32	1	+1,14	- - -	⊙ 1 L.
	12	55,0	22	14	10,0	15	22,0					⊙ 2 L.
	5	58,0	5	7	13,0	8	24,0	12,72	1	1,0	21½ S	*Rigel.*

In the YEAR M.DCCCXV.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.		Names or Characters of the STARS AND PLANETS.
FEB. 20	-	-	5	16	46,2	17	57,0	45,87	1	+ 0,1	7	S	γ *Orionis.*
	22	53,6	5	24	7,3	25	18,0	7,27	1	0,77	13¾	S	δ *Orionis.*
	27	10,0	5	28	24,0	29	34,0	23,72	1	0,50	14¾	S	ε *Orionis.*
	31	46,0	5	32	59,0	34	10,0	59,32	1	0,13	15¾	S	ζ *Orionis.*
	39	18,0	5	40	33,0	41	45,0	32,75	1	0,67	23	S	κ *Orionis.*
	45	29,0	5	46	43,3	47	55,0	43,37	1	0,10	6	S	α *Orionis.*
21	14	33,0	22	15	48,4	17	0,4	53,95	1	1,83	-	- -	⊙ 1 L.
	-	-	22	18	0,2	19	12,2						⊙ 2 L.
22	18	22,6	22	19	38,0	20	30,0	43,81	1	0,76	-	- -	⊙ 1 L.
	20	35,0	22	21	50,0	23	2,0						⊙ 2 L.
	37	17,0	6	38	34,0	39	48,0	33,77	. .	. . .	29¼	S	*Sirius.*
23	22	12,0	22	23	27,0	24	39,5	38,94	1	0,03	-	- -	⊙ 1 L.
	24	23,3	22	25	39,4	26	51,0						⊙ 2 L.
24	26	0,5	22	27	15,0	28	27,0	20,99	1	0,01	-	- -	⊙ 1 L.
	28	12,0	22	29	26,5	30	39,0						⊙ 2 L.
	22	54,0	5	24	8,0	25	19,0	7,74	4	0,18	13¼	S	δ *Orionis.*
	27	11,0	5	28	24,0	29	35,0	23,72	4	0,17	14¾	S	ε *Orionis.*
	31	47,0	5	33	0,0	34	11,0	0,32	4	0,25	15¼	S	ζ *Orionis.*
	39	19,0	5	40	34,0	41	45,2	33,78	4	0,17	23	S	κ *Orionis.*
	45	30,0	5	46	43,0	47	56,0	44,92	4	0,22	6	S	α *Orionis.*
25	29	48,0	22	Hazy.		32	15,0	8,46	1	0,27	-	- -	⊙ 1 L.
	32	59,0	22	33	14,3	34	26,0						☽ 2 L.
	22	54,2	5	24	8,0	24	19,0	8,02	1	0,07	13¼	S	δ *Orionis.*
	27	11,0	5	28	24,4	29	35,3	24,49	1	0,23	14¾	S	ε *Orionis.*
	31	47,0	5	33	0,4	34	11,0	0,52	1	0,13	15¼	S	ζ *Orionis.*
	39	19,0	5	40	34,0	41	46,0	33,75	1	0,27	23	S	κ *Orionis.*
	45	30,0	5	46	44,0	47	56,4	44,32	1	0,13	6	S	α *Orionis.*

IMMERSION of JUPITER's *first* Satellite.
Time by Clock (S.) 8h 30′ 45″. Mean Time 10h 10′ 28″,43.
Planet sufficiently high: flying Clouds: ☽ near: Observation satisfactory.

26	-	-	22	31	50,0	-	-	55,05	1	— 0,11	-	- -	⊙ 1 L.
	-	-	22	37	1,0	38	13,3						⊙ 2 L.

A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.

27	37	21,6	22	38	36,0	39	48,2	41,37	1	+ 0,22	-	- -	⊙ 1 L.
	39	32,0	22	40	47,6	41	59,5						⊙ 2 L.
28	41	7,0	22	42	22,0	43	34,0	27,33	1	0,46	-	- -	⊙ 1 L.
	43	18,0	22	44	32,2	45	45,0						⊙ 2 L.
	-	-	5	24	8,2	25	19,0	8,31	3	0,05	13¼	S	δ *Orionis.*
	27	11,0	5	28	25,0	29	36,0	24,74	3	0,14	14¾	S	ε *Orionis.*
	31	47,0	5	33	1,0	34	11,0	0,82	3	0,07	15¼	S	ζ *Orionis.*
	39	19,7	5	40	34,0	41	46,4	34,25	3	0,12	23	S	κ *Orionis.*
	45	30,0	5	46	45,2	47	56,5	44,90	3	0,14	6	S	α *Orionis.*

IMMERSION of JUPITER's *second* Satellite.
Time by Clock (S.) 8h 34′ 51″,6. Mean Time 10h 2′ 46″,48.
Planet sufficiently high and clear: Observation good.

MARCH 1	45	53,0	22	46	7,4	47	19,3	12,82	1	+ 0,39	-	- -	⊙ 1 L.
	48	3,3	22	48	18,5	49	29,4						☾ 2 L.
	39	20,0	5	40	34,0	41	46,0	34,28	1	— 0,03	23	S	κ *Orionis.*

In the YEAR M.DCCCXV.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.		Names or Characters of the STARS AND PLANETS.
MARCH 1	45	30,5	5	46	45,0	47	56,2	44,86	1	0,07	6	S	α *Orionis.*
	19	25,5	6	21	26,3	23	23,0	26,41	..	...	65¼	S	*Canopus.*
	27	20,0	6	28	37,0	29	50,3	36,84	..	...	3½	N	γ *Geminorum.*
	37	18,4	6	38	35.0	39	49,0	35,10	..	...	29¼	S	*Sirius.*
2	-	-	22	-	-	51	4,0	57,46	1	+0,14	-	- -	⊙ 1 L.
	50	48,0	22	52	3,6	53	14,0						⊙ 2 L.
	39	20,0	5	40	34,6	41	46,0	34,53	1	0,20	23	S	α *Orionis.*
	45	30,7	5	46	45,2	47	56,2	45,06	1	0,20	6	S	α *Orionis.*
	14	51,3	6	16	9,0	17	23,6	8,83	1	0,37	31	S	β *Can. Maj.*
	19	25,2	6	21	27,0	23	23,6	26,74	1	0,20	65¼	S	*Canopus.*
	27	20,0	6	28	37,0	29	50,7	36,84	1	0,13	3½	N	γ *Geminorum.*
	37	18,5	6	38	35,2	39	49,0	35,23	1	0,10	29¼	S	*Sirius.*

IMMERSION of JUPITER'S *first* Satellite.
Time by Clock (S.) 16h 17′ 17″,5. Mean Time 17h 36′ 4″,50.
Planet sufficiently high and clear: Twilight: Observation otherwise good.

										+			
3	52	23,0	22	53	37,2	54	48,5	42,30	1	0,84	-	- -	⊙ 1 L.
	54	33,0	22	55	47,4	56	59,0						⊙ 2 L.
	14	52,0	6	16	9,0	17	23,0	8,78	1	0,23	31	S	β *Can. Maj.*
	19	25,5	6	21	27,0	23	23,4	26,91	1	0,23	65¼	S	*Canopus.*
	27	20,2	6	28	37,0	29	51,0	36,83	1	0,17	3½	N	γ *Geminorum.*
	37	18,4	6	38	35,3	39	49,2	35,30	1	0,13	29¼	S	*Sirius.*
	51	33,0	6	52	57,4	54	18,0	57,04	..	...	41	S	ε *Can. Maj.*
	1	6,0	7	2	28,0	3	47,0	27,83	..	...	39¼	S	δ *Can. Maj.*
4	56	6.6	22	57	21,0	58	33,0	26,36	1	0,47	-	- -	⊙ 1 L.
	58	17,3	22	59	31,5	0	42,2						⊙ 2 L.
	14	52,0	6	16	9,0	17	23,4	9,11	1	0,13	31	S	β *Can. Maj.*
	19	26,0	6	21	27,0	23	23,4	27,04	1	0.17	65¼	S	*Canopus.*
	27	20,8	6	28	37,7	29	51,6	37,70	1	0,63	3½	N	γ *Geminorum.*
	37	19 0	6	38	36,0	39	49,6	35,90	1	0,57	29¼	S	*Sirius.*

IMMERSION of JUPITER'S *first* Satellite.
Time by Clock (S.) 10h 52′ 25″. Mean Time 12h 4′ 12″,23.
Planet high and clear: Observation good.

										+			
5	59	50,0	23	1	4,2	2	15,5	9,51	1	0,05	-	- -	⊙ 1 L.
	2	0,4	23	3	15,0	4	26,0						⊙ 2 L.
	14	52,3	6	16	9,4	17	24,0	9,53	1	0,43	31	S	β *Can. Maj.*
	37	19,2	6	38	36,4	39	49,7	36,18	1	0,23	29¼	S	*Sirius.*
	51	34,0	6	52	58,0	54	18,8	58,02	2	0,4	41	S	ε *Can. Maj.*
6	3	33,3	23	4	47,0	5	59,0	52,28	1	0,07	-	- -	⊙ 1 L.
	5	43,0	23	6	58,0	8	9,0						⊙ 2 L.
	27	21,6	6	28	38,5	29	52,0	38,18	2	0,5	3½	N	γ *Geminorum.*
	37	19,8	6	38	36,6	39	50,0	36,50	1	0,37	29¼	S	*Sirius.*
	51	34,3	6	52	58,4	54	19,0	58,13	1	0,3	41	S	ε *Can. Maj.*
7	7	16,3	23	8	30,2	9	42,0	35,58	1	1,0	-	- -	⊙ 1 L.
	9	26,0	23	10	40,3	11	52,0						⊙ 2 L.
	14	53,0	6	16	10,0	17	24,5	9,91	2	0,3	31	S	β *Can. Maj.*
	19	27,0	6	21	28,2	23	24,0	27,81	3	0,33	65¼	S	*Canopus.*
	37	20,0	6	38	37,0	39	50,2	36,80	1	0,27	29¼	S	*Sirius.*
	51	34,8	6	52	58,7	54	19,2	58,67	1	0,33	41	S	ε *Can. Maj.*
	1	7,6	7	2	29,8	3	48,3	29,16	1	0,4	39¼	S	δ *Can. Maj.*
8	10	59,0	23	12	12,7	13	24,2	17,49	1	0,01	-	- -	⊙ 1 L.
	13	8,0	23	14	23,0	15	34,0						⊙ 2 L.
	14	53,0	6	16	10,0	17	25,0	10,26	1	0,17	31	S	β *Can. Maj.*
	-	-	6	21	28,2	23	24,0	28,50	1	0,0	65¼	S	*Canopus.*

In the YEAR M.DCCCXV.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	Names or Characters of the STARS AND PLANETS.
MARCH 8	27	22,0	6	28	39,0	29	52,7	38,90	2	+ 0,26	3½ N	γ *Geminorum.*
	37	20,3	6	38	37,0	39	50,6	36,95	1	0,23	29½ S	*Sirius.*
	51	35,0	6	52	59,0	54	19,6	58,97	1	0,30	41 S	ε *Can. Maj.*
9	14	40,7	23	15	55,0	17	5,0	59,52	1	0,53	- - -	⊙ 1 L.
	16	50,4	23	18	6,0	19	15,3					⊙ 2 L.
	14	53,0	6	16	10,0	17	25,0	10,26	1	0,0	31 S	β *Can. Maj.*
	19	27,0	6	21	28,6	23	24,4	28,34	1	0,4	65½ S	*Canopus.*
	-	-	6	38	37,5	39	51,0	37,40	1	0,45	29½ S	*Sirius.*
	51	35,0	6	52	59,0	54	20,0	58,84	1	0,13	41 S	ε *Can. Maj.*
	1	8,0	7	2	30,0	3	49,0	29,89	2	0,21	39½ S	δ *Can. Maj.*
10	18	22,2	23	19	37,0	20	48,0					⊙ 1 L.
	20	32,0	*23	21	47,5	*22	58,0	- -	1	1,23	- - -	⊙ 2 L.
	Western end of the Axis 0',22 too high.											
	19	27,4	6	21	29,0	23	25,0	28,79	1	+ 0,47	65½ S	*Canopus.*
	27	22,3	6	28	39,4	29	53,2	38,83	1	0,30	3½ N	γ *Geminorum.*
	37	21,0	*6	38	38,3	39	51,4	- -	..	...	29½ S	*Sirius.*
	51	35,5	6	52	59,6	54	20,5	59,57	1	0,47	41 S	ε *Can. Maj.*
	1	8,5	7	2	30,3	3	49,4	30,43	1	0,4	39½ S	δ *Can. Maj.*
11	22	3,8	23	23	18,0	24	29,0					⊙ 1 L.
	24	13,0	*23	25	28,0	*26	39,0	- -	1	0,17	- - -	⊙ 2 L.
	Western end of the Axis 0',4 too high.											
	-	-	6	16	11,0	17	26,0	11,35	2	+ 0,5	31 S	β *Can. Maj.*
	19	27,6	6	21	29,0	23	25,6	28,99	1	0,4	65½ S	*Canopus.*
	27	23,0	6	28	40,0	29	54,0	39,78	1	0,7	3½ N	γ *Geminorum.*
	37	21,5	*6	38	38,5	39	52,0	- -	..	...	29½ S	*Sirius.*
	Western end of the Axis 0',22 too high.											
	51	36,0	6	53	0,0	54	21,0	59,84	1	+ 0,53	41 S	ε *Can. Maj.*
	IMMERSION of JUPITER's *first* Satellite. Time by Clock (S.) 13h 14' 50'. Mean Time 13h 58' 40',04. Planet near the Zenith: Clear: Good observation.											
12	25	45,2	23	26	59,4	28	10,2					⊙ 1 L.
	27	55,2	*23	29	9,0	*30	20,4	- -	1	0,15	- - -	⊙ 2 L.
	19	28,3	6	21	29,6	23	26,2	29,61	1	0,63	65½ S	*Canopus.*
	27	23,7	6	28	40,6	29	54,6	40,63	1	0,63	3½ N	γ *Geminorum.*
	51	36,7	6	53	0,7	54	21,7	0,75	1	0,7	41 S	ε *Can. Maj.*
	1	9,8	7	2	32,0	3	50,6	31,91	2	0,70	39½ S	δ *Can. Maj.*
13	29	26,0	23	30	40,4	31	51,2					⊙ 1 L.
	31	35,5	*23	32	51,0	*34	1,5	- -	1	1,08	- - -	⊙ 2 L.
	Western end of the Axis 0',47 too high.											
	14	56,0	6	16	12,8	17	27,3	12,76	2	+ 0,77	31 S	β *Can. Maj.*
	27	25,0	6	28	41,3	29	55,3	41,48	1	0,90	3½ N	γ *Geminorum.*
	37	23,0	*6	38	40,2	39	53,4	- -	..	...	29½ S	*Sirius.*
	51	37,5	6	53	1,7	54	22,4	1,42	1	0,83	41 S	ε *Can. Maj.*
	1	10,4	7	2	32,7	3	51,3	32,30	1	0,63	39½ S	δ *Can. Maj.*

In the YEAR M.DCCCXV.

DAY of the MONTH.	I. Wire. M	S	Meridian. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	Names or Characters of the STARS and PLANETS.
MARCH 13	Immersion of Jupiter's *first* Satellite. Time by Clock (S.) 7h 49′ 25″. Mean Time 8h 26′ 14″,96. Planet rather low and near the Opposition: Observation otherwise good.											
14	33	7,8	23	34	21,0	35	32,6	- -	1	+ 0,57	- - -	☉ 1 L.
	33	16,0	*23	36	30,6	*37	41,5					☉ 2 L.
	14	56,4	6	16	13,8	17	28,0	13,76	1	0,7	31 S	β *Can. Maj.*
	19	30,0	6	21	31,0	23	27,4	31,04	1	0,6	65½ S	*Canopus.*
	27	25,4	6	28	42,0	29	55,5	42,20	1	0,43	3½ N	γ *Geminorum.*
	37	29,3	6	38	40,4	39	54,0	40,28	1	0,45	29½ S	*Sirius.*
	51	38,0	6	53	2,0	54	23,0	2,07	1	0,47	41 S	ε *Can. Maj.*
	1	11,0	7	2	33,0	3	β2,0	33,06	1	0,53	39½ S	δ *Can. Maj.*
	Immersion of Jupiter's *second* Satellite. Time by Clock (S.) 14h 39′ 55″,5. Mean Time 15h 11′ 41″,74. Planet high and clear: Observation good.											
15	36	47,2	23	38	1,0	39	12,0	5,31	1	+ 0,01	- - -	☉ 1 L.
	38	56,0	23	40	10,0	41	21,3					☉ 2 L.
	14	57,0	6	16	14,0	17	28,5	14,13	1	0,43	31 S	β *Can. Maj.*
	19	30,4	6	21	31,5	23	28,0	31,54	1	0,5	65½ S	*Canopus.*
	27	26,0	6	28	42,3	29	56,0	42,40	1	0,47	3½ N	γ *Geminorum.*
	37	24,0	6	38	41,0	39	54,5	40,88	1	0,6	29½ S	*Sirius.*
	51	38,6	6	53	2,7	54	23,4	2,62	1	0,57	41 S	ε *Can. Maj.*
	Immersion of Jupiter's *third* Satellite. Time by Clock (S.) 11h 4′ 6″. Mean Time 11h 32′ 31″,68. Planet high and clear: Observation good.											
	Lowered the Western end of the Axis a very little.											
16	40	27,2	23	41	40,8	42	52,0	45,42	1	+ 0,81	- - -	☉ 1 L.
	42	55,5	23	43	50,0	45	1,3					☉ 2 L.
	Wound up the Clock: Arc of Vibration 1°: 38′,5.											
	37	25,0	6	38	41,8	39	55,0	41,65	1	+ 0,77	29½ S	*Sirius.*
	51	39,0	6	53	3,0	54	24,0	2,84	1	0,47	41 S	ε *Can. Maj.*
	55	40,0	6	57	0,0	58	17,0	59,79	..	...	37 S	δ *Can. Maj.*
	1	12,0	7	2	34,0	3	53,0	33,81	2	0,5	39½ S	δ *Can. Maj.*
	17	5,0	7	18	29,0	19	50,0	28,88	..	...	42½ S	η *Can. Maj.*
	23	2,0	7	24	29,0	25	53,0	28,88	..	...	19½ N	*Castor.*
	-	-	7	35	41,0	37	2,0	41,25	..	...	18½ N	*Pollux.*
17	44	7,2	23	45	20,8	46	32,0	- -	1	0,78	- - -	☉ 1 L.
	46	16,0	*23	47	30,2	*48	41,0					☉ 2 L.
	37	25,7	*6	38	42,6	39	55,6	- -	1	0,65	29½ S	*Sirius.*
	51	39,5	6	53	3,7	54	24,6	3,57	1	0,7	41 S	ε *Can. Maj.*
	55	40,5	6	57	0,4	58	17,7	0,54	1	0,53	37 S	δ *Can. Maj.*
	1	13,0	7	2	34,6	3	53,4	34,73	1	0,67	39½ S	δ *Can. Maj.*
	17	5,4	7	18	29,4	19	50,5	29,50	1	0,43	42½ S	η *Can. Maj.*
	Western end of the Axis 0″,2 too high.											
18	47	47,0	23	49	0,3	50	11,0	- -	1	+ 0,51	- - -	☉ 1 L.
	49	55,0	*23	51	9,6	*52	20,0					☉ 2 L.

In the YEAR M.DCCCXV.

DAY OF THE MONTH.	I. Wire. M S	MERIDIAN. H M S	III. Wire. M S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
MARCH 18	Western end of the Axis 0',57 too high.					+		
	51 40,0	6 53 4,5	54 25,0	4,09	1	0,47	41 S	*ε Can. Maj.*
	1 12,3	7 2 35,0	3 53,0	34,88	1	0,10	39¼ S	*δ Can. Maj.*
	17 6,0	7 18 30,0	19 50,8	30,03	1	0,5	42¼ S	*η Can. Maj.*
	23 3,0	7 24 30,0	25 53,8	30,05	2	0,46	19½ N	*Castor.*
19	51 25,5	23 52 39,8	53 59,5	- -	1	0,94	- - -	⊙ 1 L.
	53 55,2	*23 54 48,8	- -	- -				⊙ 2 L.
	- -	6 47 0,4	48 19,0	- -	..	...	10 N	☽ 1 L. 7h 0' 21",84 mean Time.
	Eastern end of the Axis 0',35 too high.					+		
	51 40,3	6 53 5,0	54 25,0	4,64	1	0,23	41 S	*ε Can. Maj.*
	- -	7 18 30,4	19 51,5	30,37	1	0,55	42¼ S	*η Can. Maj.*
	23 3,6	7 24 30,5	25 54,4	30,63	1	0,57	19¼ N	*Castor.*
	34 19,6	7 35 43,0	37 3,6	43,12	3	0,43	15½ N	*Pollux.*
	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.							
20	55 6,2	23 56 20,0	57 31,0	- -	1	+ 1,22	- - -	⊙ 1 L.
	57 15,0	*23 58 28,4	*59 39,4					⊙ 2 L.
	Eastern end of the Axis 0',2 too high.							
	1 16,0	7 2 38,0	3 56,0	37,81	2	+ 1,45	39¼ S	*δ Can. Maj.*
	17 8,0	7 18 32,2	19 53,0	32,9	1	1,7	42¼ S	*η Can. Maj.*
	23 5,0	7 24 32,4	25 55,8	32,25	1	1,57	19¼ N	*Castor.*
	34 21,0	7 35 45,0	37 5,0	44,82	1	1,35	15¼ N	*Pollux.*
	30 16,3	7 51 37,0	52 55,0	- -	..	...	9¼ S	☽ 1 L. 8h 0' 50",51 mean Time.
	IMMERSION of JUPITER's *first* Satellite. Time by Clock (S.) 10h 11' 2". Mean Time 10h 19' 52",50. Planet sufficiently high and clear: Moonlight: Observation good.							
21	58 45,0	23 59 59,2	1 10,5	- -	..	...	- - -	⊙ 1 L.
	0 54,2	*0 2 6,8	*3 18,8					⊙ 2 L.
	Eastern end of the Axis 0',62 too high.					+		
	1 16,6	7 2 38,4	3 56,6	38,33	1	0,52	39¼ S	*δ Can. Maj.*
	17 9,0	7 18 33,0	19 54,0	32,85	1	0,9	42¼ S	*η Can. Maj.*
	23 6,0	7 24 33,0	25 56,6	33,05	1	0,8	19¼ N	*Castor.*
	30 9,2	7 31 23,0	32 32,0	22,75	5	0,8	7¼ S	*Procyon.*
	34 21,5	7 35 45,6	37 6,0	45,49	1	0,7	15¼ N	*Pollux.*
22	2 24,0	0 3 37,0	4 48,8	- -	1	0,69	- - -	⊙ 1 L.
	4 39,4	*0 5 46,4	*6 57,5					⊙ 2 L.
	17 9,7	7 18 33,4	19 54,3	33,50	1	0,47	42¼ S	*η Can. Maj.*
	23 6,7	7 24 33,8	25 57,0	33,68	1	0,63	19¼ N	*Castor.*
	34 22,0	7 35 46,4	37 6,6	46,17	1	0,63	15¼ N	*Pollux.*
	Eastern end of the Axis 0',15 too high.							

In the YEAR M.DCCCXV.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters of the* STARS AND PLANETS.
MARCH 22	IMMERSION of JUPITER'S *third* Satellite. Time by Clock (S.) 15h 41′ 26″. Mean Time 15h 41′ 29″,12. Planet sufficiently high and clear, but Moonlight: Observation not satisfactory, in consequence of the Planet being near the opposition.											
23	6	2,5	0	7	16,0	8	27,5	- -	1	+ 0,18	- - -	⊙ 1 L.
	8	11,5	*0	9	25,0	*10	36,2					⊙ 2 L.
	Eastern end of the Axis 0″,75 too high.											
	17	10,0	7	18	34,0	19	55,0	34,68	1	+ 0,53	42½ S	*η Can. Maj.*
	23	7,0	7	24	34,5	25	57,5	34,22	1	0,50	19½ N	*Castor.*
	30	10,0	7	31	24,0	32	33,2	23,75	1	0,30	7½ S	*Procyon.*
	34	22,5	7	35	47,0	37	7,2	46,74	1	0,57	15½ N	*Pollux.*
24	9	42,0	0	10	56,2	12	6,5	- -	1	1,73	- - -	⊙ 1 L.
	11	50,3	*0	13	4,0	*14	14,5					⊙ 2 L.
	Eastern end of the Axis 0″,2 too high.											
	17	10,5	7	18	34,6	19	55,7	34,68	1	+ 0,6	42½ S	*η Can. Maj.*
	23	7,8	7	24	35,0	25	58,2	34,85	1	0,67	19½ N	*Castor.*
	30	10,8	7	31	24,8	32	34,0	24,32	1	0,8	7½ S	*Procyon.*
	34	23,0	7	35	47,7	37	8,0	47,19	1	0,66	15½ N	*Pollux.*
25	13	20,2	0	14	34,2	15	45,3	- -	1	0,53	- - -	⊙ 1 L.
	15	29,0	*0	16	42,4	*17	53,0					⊙ 2 L.
	17	11,0	7	18	35,0	19	56,0	34,85	1	0,4	42½ S	*η Can. Maj.*
	23	8,5	7	24	35,6	25	59,0	35,53	1	0,7	19½ N	*Castor.*
	34	23,5	7	35	48,0	37	8,6	47,84	1	0,47	15½ N	*Pollux.*
	Eastern end of the Axis 0″,12 too high.											
26	16	57,7	0	18	12,2	19	23,4	- -	1	+ 0,11	- - -	⊙ 1 L.
	19	6,5	*0	20	20,4	*21	31,2					⊙ 2 L.
	Eastern end of the Axis 0″,40 too high.											
	17	11,6	7	18	35,7	19	56,4	35,68	1	+ 0,57	42½ S	*η Can. Maj.*
	23	9,0	7	24	35,8	25	59,4	35,85	1	0,37	19½ N	*Castor.*
	34	24,0	7	35	48,5	37	9,0	48,09	1	0,47	15½ N	*Pollux.*
	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right. Lowered the Eastern end of the Axis a very little.											
27	20	36,0	0	21	50,0	23	1,0	- -	1	— 0,36	- - -	⊙ 1 L.
	22	45,0	*0	23	59,7	*25	11,0					⊙ 2 L.
	Western end of the Axis 0″,42 too high.											
	17	12,0	7	18	36,0	19	57,0	36,08	1	+ 0,43	42½ S	*η Can. Maj.*
	23	9,3	7	24	36,0	26	0,0	36,18	1	0,37	19½ N	*Castor.*
	30	12,5	7	31	26,4	-	-	26,43	1	0,45	7½ S	*Procyon.*

In the YEAR M.DCCCXV.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	Names or Characters of the STARS AND PLANETS.
MARCH 27	34	24,6	7	35	49,0	37	9,3	48,79	1	+0,47	15¼ N	*Pollux.*
	-	-	7	58	55,0	0	27,0	55.25	..	...	52½ S	*ζ Arg. Nav.*
28	24	15,0	0	25	28,0	26	39,3					
	26	23,6	0	27	37,2	28	48,3	31,82	1	—0,64	- - -	⊙ 1 L.
												⊙ 2 L.
	Western end of the Axis 0″,25 *too* high.											
	23	9,8	7	24	36,4	26	0,3	36,55	1	+0,4	19½ N	*Castor.*
	30	13,0	7	31	27,0	32	38,0	26,97	1	0,55	7½ S	*Procyon.*
	42	0,3	7	43	21,0	44	39,0	21,11	..	...	37½ S	*ξ Arg. Nav.*
	57	20,0	7	58	55,6	0	27,0	55,75	..	...	52½ S	*ζ Arg. Nav.*
	3	53,0	8	5	40,0	7	23,0	40,12	..	...	60 S	*γ Arg. Nav.*
	18	10.4	8	20	33,0	22	50,4	33,16	..	...	72 S	*ε Arg. Nav.*
	39	21,2	8	41	26,0	43	27,6	26,33	..	...	67 S	*δ Arg. Nav.*
29	27	52,4	0	29	7,0	30	18,0					
	30	1,5 *0	31	16,6	*32	27,0	-	1	1,84	- - -	⊙ 1 L.	
												⊙ 2 L.
	Western end of the Axis 0″,10 too high.											
	30	13,3	7	31	27,2	32	38,5	27,27	1	+0,53	7½ S	*Procyon.*
	42	1.0	7	43	21,5	44	39.3	21,61	1	0,5	37½ S	*ξ Arg. Nav.*
	57	20.3	7	58	56.0	0	27.2	55,85	1	0,3	52½ S	*ζ Arg. Nav.*
	3	53.3	8	5	40,5	7	23,6	40.60	1	0,47	60 S	*γ Arg. Nav.*
	18	11.0	8	20	33,3	22	50.6	33,51	1	0,37	72 S	*ε Arg. Nav.*
	39	21,4	8	41	26,4	43	27,6	26,51	1	0,4	67 S	*δ Arg. Nav.*
	EMERSION of JUPITER's *first* Satellite. Time by Clock (S.) 9h 21′ 13″,0. Mean Time 8h 54′ 43″,04. Planet sufficiently high and clear: Observation good.											
30	31	31,4	0	32	45,0	33	56,0					
	33	39,0	0	34	54.0	36	5,0	47,62	.1	—1,74	- - -	⊙ 1 L.
	42	1,3	7	43	22,0	44	39,5	21.98	1	+0,33	37½ S	⊙ 2 L.
	57	20,8	7	58	56.8	0	28,0	56,53	1	0,53	52½ S	*ξ Arg. Nav.*
	3	54,0	8	5	41,0	7	24,0	41,11	1	0,53	60 S	*ζ Arg. Nav.*
	18	11,4	8	20	34,0	22	51,0	34.06	1	0,5	72 S	*γ Arg. Nav.*
	39	22,0	8	41	27,0	43	28,0	27,28	1	0,53	67 S	*ε Arg. Nav.*
												δ Arg. Nav.
31	-	-	0	36	24,0	37	35,0					
	37	19,0	0	38	32,5	39	42,2	28,35	1	2,73	- - -	⊙ 1 L.
	42	2,0	7	43	22,5	44	39,8	22,45	1	0,5	37½ S	⊙ 2 L.
	57	21,8	7	58	56,5	0	28,4	56,78	1	0,53	52½ S	*ξ Arg. Nav.*
	3	54,6	8	5	41,5	-	-	41,95	1	0,55	60 S	*ζ Arg. Nav.*
	18	12,0	8	20	55,0	22	51,5	34,83	1	0,70	72 S	*γ Arg. Nav.*
												ε Arg. Nav.
APRIL 1	38	48,2	0	40	2,4	41	13,3					
	40	57,2	0	42	11,0	43	22,0	6,69	1	0,24	- - -	⊙ 1 L.
												⊙ 2 L.
	Wound up the Clock: Arc of Vibration 1°: 38′.											
	42	2,3	7	43	23,0	44	40,2	22,91	1	+0,4	37½ S	*ξ Arg. Nav.*
	57	22,3	7	58	57,0	0	29,0	57,30	1	0,53	52½ S	*ζ Arg. Nav.*
	3	55,0	8	5	42,0	7	25,0	42,12	1	0,45	60 S	*γ Arg. Nav.*
2	42	27,0	0	43	44,0	44	52,4					
	44	35,4	0	45	49,5	47	1,4	45,40	1	0,61	- - -	⊙ 1 L.
	42	3,0	7	43	23,5	44	41,0	23,53	1	0,67	37½ S	⊙ 2 L.
												ξ Arg. Nav.

In the YEAR M.DCCCXV.

DAY OF THE MONTH.	I. Wire. M S	MERIDIAN. H M S	III. Wire. M S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names* or *Characters* of the STARS AND PLANETS.
APRIL 2	57 23,0	7 58 57,6	**0** 29,4	57,88	1	+0,57	52½ S	ζ *Arg. Nav.*
	3 55,4	8 5 42,7	7 23,7	42,75	1	0,60	60 S	γ *Arg. Nav.*
	18 12,7	8 20 35,6	22 52,2	35,48	2	0,33	72 S	ε *Arg. Nav.*
3	46 6,0	0 47 29,0	48 31,5	24,35	1	0,55	- - -	⊙ 1 L.
	48 14,5	**0** 49 28,4	50 40,0					⊙ 2 L.
	3 56,0	8 5 43,4	7 26,4	43,42	1	0,66	60 S	γ *Arg. Nav.*
	18 13,2	8 20 36,0	22 52,6	35,91	1	0,43	72 S	ε *Arg. Nav.*
	39 23,4	8 41 29,0	43 29,4	28,98	1	0,47	67 S	δ *Arg. Nav.*
		EMERSION of JUPITER's *first* Satellite. Time by Clock (S.) 17h 7' 7". Mean Time 16h 19' 38",57. Planet low, but clear: the ☽ opposite to the Planet: Observation good.						
4	49 45,0	0 50 58,8	52 10,0	3,24	1	+0,65	- - -	⊙ 1 L.
	51 52,3	0 53 7,0	54 10,0					⊙ 2 L.
	42 4,0	7 43 21,8	44 42,0	24,68	2	0,55	37½ S	ξ *Arg. Nav.*
	57 23,8	7 58 59,0	**0** 30,3	59,05	2	0,08	52½ S	ζ *Arg. Nav.*
	3 56,3	8 5 44,0	7 27,0	43,99	1	0,50	60 S	γ *Arg. Nav.*
	18 14,0	8 20 36,3	22 53,0	36,11	1	0,5	72 S	ε *Arg. Nav.*
	39 24,0	8 41 29,5	43 30,0	29,53	1	0,57	67 S	δ *Arg. Nav.*
5	53 23,5	0 54 38,0	55 49,2	42,26	1	0,49	- - -	⊙ 1 L.
	55 32,8	0 56 47,0	57 58,3					⊙ 2 L.
	42 4,1	7 43 25,3	44 42,3	25,11	1	0,4	37½ S	ξ *Arg. Nav.*
	57 24,5	7 58 59,5	**0** 31,0	59,60	1	0,57	52½ S	ζ *Arg. Nav.*
	3 56,7	8 5 44,4	7 27,5	44,37	1	0,43	60 S	γ *Arg. Nav.*
	39 24,5	8 41 30,0	43 30,6	30,06	1	0,53	67 S	δ *Arg. Nav.*
		EMERSION of JUPITER's *first* Satellite. Time by Clock (S.) 11h 42' 20". Mean Time 10h 47' 52",12. Planet near the Zenith: Clear: Observation good.						
6	57 3,0	**0** 58 17,4	59 29,0	21,86	1	+0,80	- - -	⊙ 1 L.
	59 12,0	1 0 26,0	1 37,5					⊙ 2 L.
	42 5,0	7 43 25,8	44 43,0	25,67	1	0,6	37½ S	ξ *Arg. Nav.*
	57 24,8	7 59 0,0	**0** 31,3	0,05	1	0,37	52½ S	ζ *Arg. Nav.*
	3 57,0	8 5 45,0	7 28,0	44,65	1	0,47	60 S	γ *Arg. Nav.*
	18 15,0	8 20 37,0	22 54,0	36,98	2	0,45	72 S	ε *Arg. Nav.*
7	**0** 42,3	1 1 56,0	3 8,0	0,95	1	0,55	- - -	⊙ 1 L.
	2 51,4	1 4 5,5	5 17,0					⊙ 2 L.
	42 5,4	7 43 26,2	44 43,4	26,08	1	0,4	37½ S	ξ *Arg. Nav.*
	57 25,0	7 59 0,3	0 32,0	0,15	1	0,4	52½ S	ζ *Arg. Nav.*
	3 57,4	8 5 45,3	7 28,3	45,20	1	0,33	60 S	γ *Arg. Nav.*
	18 15,4	8 20 37,5	22 54,5	37,68	1	0,47	72 S	ε *Arg. Nav.*
	39 25,6	8 41 31,0	43 31,4	30,81	2	0,48	67 S	δ *Arg. Nav.*
8	4 22,0	1 5 36,0	6 48,0	40,29	1	0,80	- - -	⊙ 1 L.
	6 31,0	1 7 45,0	8 57,0					⊙ 2 L.
	3 58,0	8 5 46,0	7 29,0	45,81	1	0,66	60 S	γ *Arg. Nav.*
	39 26,0	8 41 31,5	43 32,0	31,53	1	0,5	67 S	δ *Arg. Nav.*
	- - -	9 3 8,4	4 44,3	8,45	..	- - -	56 S	λ *Arg. Nav.*
		EMERSION of JUPITER's *second* Satellite. Time by Clock (S.) 15h 53' 10". Mean Time 14h 46' 12",15. Planet low, but clear: Observation good.						

In the YEAR M.DCCCXV.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	Names or Characters of the STARS AND PLANETS.
APRIL 9	8	1,5	1	9	16,0	10	28,2	20,54	1	+ 1,25	- - -	⊙ 1 L.
	10	11,0	1	11	25,3	12	37,0					⊙ 2 L.
	3	58,4	8	5	46,3	7	29,3	46,20	1	0,33	60 S	γ *Arg. Nav.*
	18	16,7	8	20	39,2	22	55,4	39,31	1	0,06	72 S	ε *Arg. Nav.*
	1	28,0	9	3	9,0	4	45,0	8,77	1	0,65	56 S	λ *Arg. Nav.*
	11	44,3	9	14	5,0	16	21,0	5,30	..	- - -	71½ S	ι *Arg. Nav.*
	-	-	9	20	27,0	21	38,0	27,35	..	- - -	20½ S	α *Hydræ.*
10	11	42,0	1	12	56,4	14	8,0	0,90	1	0,66	- - -	⊙ 1 L.
	13	51,3	1	15	5,5	16	17,0					⊙ 2 L.
	3	59,0	8	5	47,0	7	30,0	46,65	1	0,66	60 S	γ *Arg. Nav.*
	39	27,0	8	41	32,2	43	33,0	32,98	2	0,45	67 S	δ *Arg. Nav.*
	1	28,5	9	3	9,3	4	45,4	9,37	1	0,4	56 S	λ *Arg. Nav.*
	11	45,0	9	14	5,6	16	21,6	5,87	1	0,6	71½ S	ι *Arg. Nav.*
	19	13,0	9	20	27,6	21	38,5	27,43	1	0,55	20½ S	α *Hydræ.*
11	15	22,0	1	16	36,8	17	48,3	41,30	1	0,40	- - -	⊙ 1 L.
	17	31,6	1	18	46,2	19	58,2					⊙ 2 L.
	39	27,6	8	41	33,0	43	33,5	33,06	1	0,63	67 S	δ *Arg. Nav.*
	1	29,0	9	3	9,7	4	46,0	9,62	1	0,50	56 S	λ *Arg. Nav.*
	11	45,3	9	14	6,0	16	22,0	6,05	1	0,40	71½ S	ι *Arg. Nav.*
	19	13,4	9	20	28,0	21	39,0	27,86	1	0,45	20½ S	α *Hydræ.*
12	19	2,5	1	20	18,0	21	29,4	22,42	1	1,12	- - -	⊙ 1 L.
	21	12,0	1	22	27,2	23	39,0					⊙ 2 L.
	39	28,0	8	41	33,3	43	34,0	33,43	1	0,4	67 S	δ *Arg. Nav.*
	1	29,6	9	3	10,2	4	46,4	10,35	1	0,5	56 S	λ *Arg. Nav.*
	11	46,0	9	14	6,5	16	22,4	6,82	1	0,53	71½ S	ι *Arg. Nav.*

EMERSION of JUPITER's *first* Satellite.
Time by Clock (S.) 14h 4′ 28″. Mean Time 12h 42′ 1″,54.
Planet sufficiently high and clear: Observation good.

13	22	43,4	1	23	57,8	25	10,0	2,80	1	− 0,12	- - -	⊙ 1 L.
	24	53,0	1	26	8,0	27	19,2					⊙ 2 L.
	39	28,2	8	41	34,0	43	34,3	33,91	1	+ 0,40	67 S	δ *Arg. Nav.*
	1	30,0	9	3	10,5	4	47,0	10,52	1	0,43	56 S	λ *Arg. Nav.*
	11	46,4	9	14	7,0	16	22,8	7,27	1	0,43	71½ S	ι *Arg. Nav.*
14	26	25,0	1	27	40,4	28	52,0	44,72	1	1,12	- - -	⊙ 1 L.
	28	34,0	1	29	49,3	31	1,3					⊙ 2 L.
	18	18,4	8	20	41,3	22	57,5	41,08	1	0,4	72 S	ε *Arg. Nav.*

EMERSION of JUPITER's *first* Satellite.
Time by Clock (S.) 8h 39′ 45″. Mean Time 7h 10′ 18″,98.
Planet low, but clear: Moonlight: Observation good.

	1	30,5	9	3	11,0	4	47,3	11,20	1	+ 0,43	56 S	λ *Arg. Nav.*
	11	47,0	9	14	7,6	16	23,2	7,82	1	0,47	71½ S	ι *Arg. Nav.*
	19	15,0	9	20	29,3	21	40,5	29,28	3	0,49	20½ S	α *Hydræ.*
15	30	7,0	1	31	22,0	32	32,5	26,10	1	0,92	- - -	⊙ 1 L.
	32	16,0	1	33	31,0	34	43,0					⊙ 2 L.

Wound up the Clock: Arc of Vibration 1°: 38′.

	39	30,0	8	41	35,6	43	36,0	35,58	2	+ 0,85	67 S	δ *Arg. Nav.*
	1	31,0	9	3	11,6	4	48,0	11,57	1	0,6	56 S	λ *Arg. Nav.*
	19	15,6	9	20	30,0	21	41,0	29,91	1	0,60	20½ S	α *Hydræ.*

In the YEAR M.DCCCXV.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock. +	Zenith Distance.		Names or Characters of the STARS AND PLANETS.
APRIL 16	33	49,0	1	35	4,0	36	15,4						
	35	58,0	1	37	13,6	38	26,6	8,60	1	1,10	- - -		⊙ 1 L.
	39	30,7	8	41	36,2	43	35,7						⊙ 2 L.
	39	30,7	8	41	36,2	43	35,7	35,98	1	0,33	67 S		δ *Arg. Nav.*
	1	31,5	9	3	12,0	4	48,6	12,27	1	0,5	56 S		λ *Arg. Nav.*
	11	48,0	9	14	8,8	16	24,7	9,05	1	0,7	71½ S		ι *Arg. Nav.*
	19	16,0	9	20	30,6	21	41,7	30,23	1	0,57	20½ S		α *Hydræ.*
17	37	31,4	1	38	46,0	39	58,0						
	39	40,5	1	40	56,3	42	8,0	51,13	1	0,63	- - -		⊙ 1 L.
	39	41,5	8	35	2,0	36	20,0	2,24	..	...	8½ N		⊙ 2 L.
	39	31,4	8	41	37,0	43	36,6	36,78	1	0,8	67 S		☽ 1 L. 6h 53′ 46″,94 mean Time.
	1	32,3	9	3	12,8	4	49,4	13,05	1	0,8	56 S		δ *Arg. Nav.*
	11	48,5	9	14	9,6	16	25,5	9,77	1	0,7	71½ S		λ *Arg. Nav.*
	19	16,7	9	20	31,4	21	42,4	31,23	1	0,73	20½ S		ι *Arg. Nav.*
	59	17,0	10	0	33,0	1	45,0	32,75	..	...	½ S		α *Hydræ.*
													Regulus.
18	41	14,2	1	42	29,3	43	40,0						
	43	24,0	1	44	38,5	45	51,0	38,52	1	0,29	- - -		⊙ 1 L.
	39	32,0	8	41	37,7	43	37,5						⊙ 2 L.
	39	32,0	8	41	37,7	43	37,5	37,51	1	0,73	67 S		δ *Arg. Nav.*
	11	49,0	9	14	10,0	16	26,2	10,05	1	0,53	71½ S		ι *Arg. Nav.*
	19	17,6	9	20	32,0	21	43,0	31,91	1	0,7	20½ S		α *Hydræ.*
	35	8,0	9	36	27,0	37	43,0	27,11	..	...	5½ N		☽ 1 L. 7h 51′ 5″,55 mean Time.
19	44	56,8	1	46	12,0	47	24,7						
	47	6,5	1	-	-	49	35,0	17,29	1	1,27	- - -		⊙ 1 L.
													⊙ 2 L.

EMERSION of JUPITER's *second* Satellite.
Time by Clock (S.) 8h 29′ 45″. Mean Time 6h 40′ 37″,22.
Planet high and clear: Twilight: Observation otherwise good.

	39	32,6	8	41	38,5	43	38,5	38,23	1	0,73	67 S		δ *Arg. Nav.*
	11	49,7	9	14	10,8	16	27,0	11,04	1	0,77	71½ S		ι *Arg. Nav.*
	19	18,3	9	20	32,7	21	43,6	32,58	1	0,66	20½ S		α *Hydræ.*

EMERSION of JUPITER's *first* Satellite.
Time by Clock (S.) 16h 27′ 4″. Mean Time 14h 36′ 37″,80.
Planet low: Moonlight: somewhat Hazy.

20	48	40,0	1	49	55,5	51	8,0						
	50	50,0	1	52	6,2	53	18,0	1,12	1	0,83	- - -		⊙ 1 L.
	39	33,5	8	41	39,4	43	39,2						⊙ 2 L.
	39	33,5	8	41	39,4	43	39,2	39,15	1	0,9	67 S		δ *Arg. Nav.*
	1	36,0	9	3	16,0	4	52,0	16,25	3	1,06	56 S		λ *Arg. Nav.*
	59	19,4	10	0	35,0	1	48,0	35,10	3	0,82	¼ S		*Regulus.*
	10	31,5	10	11	50,0	13	6,0	50,18	..	...	7½ N		γ *Leonis.*
	30	27,9	11	31	43,4	32	56,2	43,38	..	...	4 S		☽ 1 L. 9h 38′ 8″,70 mean Time.

EMERSION of JUPITER's *third* Satellite.
Time by Clock (S.) 11h 56′ 45″. Mean Time 10h 3′ 6″,21.
Planet near the Zenith: Clear: Moonlight: Observation good.

21	52	24,4	1	53	40,2	54	52,0						
	54	35,0	1	55	50,0	57	3,0	44,89	1	0,47	- - -		⊙ 1 L.
	11	51,7	9	14	13,0	16	28,6						⊙ 2 L.
	11	51,7	9	14	13,0	16	28,6	13,05	2	0,96	71½ S		ι *Arg. Nav.*
	19	20,0	9	20	34,6	21	45,0	34,98	2	0,83	20½ S		α *Hydræ.*
	-	-	10	0	35,8	1	48,7	35,82	1	0,75	¼ S		*Regulus.*
	10	32,4	10	11	50,8	13	7,0	51,06	1	0,90	7½ N		γ *Leonis.*
22	-	-	1	57	24,0	58	37,0						
	58	19,0	1	59	35,0	0	48,0	29,30	1	0,91	- - -		⊙ 1 L.
													⊙ 2 L.

In the YEAR M.DCCCXV.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.		Names or Characters of the STARS AND PLANETS.
APRIL 22	11	52,6	9	14	14,3	16	29,8	14,10	1	+ 0,97	71¼	S	ι *Arg. Nav.*
	59	21,0	10	0	36,7	1	49,4	36,70	1	0,80	¼	S	*Regulus.*
	10	33,4	10	11	51,7	13	7,8	51,95	1	0,90	7¼	N	γ *Leonis.*
23	59	54,0	9	1	8,8	2	22,0	14,68	1	1,18	- - -		⊙ 1 L.
	2	4,0	2	3	20,9	4	33,0						⊙ 2 L.
	1	38,0	9	3	18,7	4	54,6	18,68	1	0,97	56	S	λ *Arg. Nav.*
	11	53,5	9	14	15,0	16	30,0	14,85	1	0,77	71¼	S	ι *Arg. Nav.*
	59	21,8	10	0	37,6	1	50,4	37,60	1	0,90	¼	S	*Regulus.*
	10	34,4	10	11	52,8	13	8,7	52,98	1	1,0	7¼	N	γ *Leonis.*
24	3	39,0	2	4	55,0	6	7,7	0,05	1	0,37	- - -		⊙ 1 L.
	5	50,0	2	7	6,0	8	18,0						⊙ 2 L.
	1	39,0	9	3	19,6	4	55,3	19,64	1	0,87	56	S	λ *Arg. Nav.*
	11	54,4	9	14	16,0	16	30,8	15,77	1	0,9	71¼	S	ι *Arg. Nav.*
	19	24,0	9	20	38,0	21	49,0	37,58	3	1,27	20½	S	α *Hydræ.*
	59	22,8	10	0	38,5	1	51,2	38,50	1	0,9	¼	S	*Regulus.*
	10	35,2	10	10	53,7	13	9,4	53,81	1	0,8	7¼	N	γ *Leonis.*
	50	30,0	10	52	45,8	54	57,0	45,83	..	. . .	44½	N	β *Urs. Maj.*
25	7	25,0	2	8	41,0	9	54,3	46,61	1	1,46	- - -		⊙ 1 L.
	9	36,0	2	10	52,2	12	5,0						⊙ 2 L.
	19	25,0	9	20	39,0	21	49,8	38,96	1	0,93	20½	S	α *Hydræ.*
	59	23,7	10	0	39,5	1	52,5	39,63	1	1,17	¼	S	*Regulus.*
	10	36,0	10	11	54,8	13	10,3	54,68	1	0,93	7¼	N	γ *Leonis.*
26	11	11,2	2	12	27,0	13	40,0	32,65	1	0,44	- - -		⊙ 1 L.
	13	22,0	2	14	38,4	15	51,0						⊙ 2 L.
	19	25,8	9	20	39,8	21	50,7	39,78	1	0,85	20½	S	α *Hydræ.*
	59	24,8	10	0	40,5	1	53,7	40,63	1	1,0	¼	S	*Regulus.*
	10	37,0	10	11	55,8	13	11,2	55,76	1	0,97	7¼	N	γ *Leonis.*
	50	31,6	10	52	47,7	54	59,0	47,91	2	0,92	44½	N	β *Urs. Maj.*
	5	7,0	11	6	26,0	7	42,0	25,83	..	. . .	8¼	N	δ *Leonis.*

EMERSION of JUPITER's *second* Satellite.
Time by Clock (S.) 11ʰ 33′ 20″. Mean Time 9ʰ 16′ 3″,93.
Planet near the Zenith: Clear: Observation good.

27	14	58,8	2	16	14,0	17	27,4	19,82	1	+ 1,07	- - -		⊙ 1 L.
	17	9,0	2	18	25,4	19	38,4						⊙ 2 L.
	19	26,8	9	20	40,7	21	51,6	40,71	1	0,93	20½	S	α *Hydræ.*
	59	25,8	10	0	41,6	1	54,7	41,68	1	1,03	¼	S	*Regulus.*
	10	38,0	10	11	56,8	13	12,2	56,76	1	1,0	7¼	N	γ *Leonis.*
28	18	45,8	2	20	1,2	21	15,0	7,40	1	0,98	- - -		⊙ 1 L.
	20	57,0	2	22	13,4	23	26,0						⊙ 2 L.
	19	28,0	9	20	41,8	21	52,8	41,86	1	1,17	20½	S	α *Hydræ.*
	59	26,7	10	0	42,7	1	55,5	42,65	1	0,97	¼	S	*Regulus.*
	10	39,0	10	11	58,0	13	13,4	58,32	1	1,13	7¼	N	γ *Leonis.*
	5	9,0	11	6	28,0	7	44,0	27,83	2	1,0	8¼	N	δ *Leonis.*

EMERSION of JUPITER's *first* Satellite.
Time by Clock (S.) 15ʰ 24′ 25″. Mean Time 10ʰ 58′ 56″,64.
Planet near the Zenith: Clear: Observation good.

29	22	34,4	2	23	51,2	25	3,0	55,96	1	+ 1,46	- - -		⊙ 1 L.
	24	45,5	2	26	1,0	27	14,2						⊙ 2 L.
	59	28,4	10	0	43,8	1	56,3	43,83	1	1,2	¼	S	*Regulus.*
	10	40,0	10	11	59,0	13	14,5	59,25	1	1,03	7¼	N	γ *Leonis.*
	50	31,0	10	52	50,0	55	1,6	50,31	3	0,81	44½	N	β *Urs. Maj.*
	5	9,7	11	6	29,0	7	45,0	28,98	1	0,9	8¼	N	δ *Leonis.*

In the YEAR M.DCCCXV.

DAY of the MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
										+		
APRIL 30	26	22,0	2	27	38,0	28	51,4	43,73	1	0,19	- - -	☉ 1 L.
	28	33,4	2	29	49,3	31	3,0					☉ 2 L.
	19	30,0	9	20	44,0	21	55,0	43,78	2	1,06	20½ S	*α Hydræ.*
	59	29,6	10	0	45,0	1	57,2	44,95	1	1,1	½ S	*Regulus.*
	10	41,0	10	12	0,0	13	15,5	59,03	1	1,0	7½ N	*γ Leonis.*
	59	43,3	11	1	28,0	3	9,0	28,12	..	...	32½ N	*ψ Urs. Maj.*
	5	11,0	11	6	30,0	7	46,0	29,83	1	1,1	8½ N	*δ Leonis.*
	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.											
										+		
MAY 1	30	10,2	2	31	27,0	32	40,2	32,82	1	1,50	- - -	☉ 1 L.
	32	22,0	2	33	39,0	34	52,0					☉ 2 L.
	59	30,4	10	0	46,0	1	58,0	45,85	1	0,87	½ S	*Regulus.*
	50	36,0	10	52	52,6	55	4,0	52,74	2	1,16	44½ N	*β Urs. Maj.*
	59	44,0	11	1	20,0	3	10,0	29,08	1	0,9	32½ N	*ψ Urs. Maj.*
	5	12,0	11	6	31,0	7	47,0	30,83	1	1,0	8½ N	*δ Leonis.*
	Wound up the Clock: Arc of Vibration 1°: 37'.											
										+		
2	34	0,2	2	35	16,2	36	30,2	22,93	1	1,90	- - -	☉ 1 L.
	36	12,0	2	37	31,0	38	42,0					☉ 2 L.
	5	13,0	11	6	31,8	7	48,0	31,73	1	0,93	8½ N	*δ Leonis.*
										+		
3	37	50,0	2	39	6,3	40	20,0	12,41	1	0,68	- - -	☉ 1 L.
	40	2,0	2	41	18,2	42	32,0					☉ 2 L.
	10	44,0	10	12	3,0	13	18,0	2,81	2	0,97	7½ N	*γ Leonis.*
										+		
4	41	40,0	2	42	57,0	44	10,8	3,77	1	2,06	- - -	☉ 1 L.
	43	53,2	2	45	11,0	46	23,0					☉ 2 L.
	59	33,0	10	0	48,3	2	0,4	48,03	1	0,8	½ S	*Regulus.*
	10	45,0	10	12	3,7	13	19,0	2,66	1	0,9	7½ N	*γ Leonis.*
	50	39,0	10	52	55,4	55	6,4	55,23	3	0,91	44½ N	*β Urs. Maj.*
	59	47,0	11	1	32,0	3	12,5	31,65	3	0,94	32½ N	*ψ Urs. Maj.*
	5	14,6	11	6	33,7	7	49,6	33,71	2	0,85	8½ N	*δ Leonis.*
										+		
5	45	31,0	2	46	48,0	48	2,0	54,28	1	0,62	- - -	☉ 1 L.
	47	45,0	2	49	1,0	50	14,0					☉ 2 L.
	59	34,0	10	0	49,0	2	1,3	49,08	1	0,87	½ S	*Regulus.*
	10	45,7	10	12	4,4	13	19,7	4,36	1	0,70	7½ N	*γ Leonis.*
	59	48,0	11	1	32,8	3	13,3	32,80	1	0,87	32½ N	*ψ Urs. Maj.*
	5	15,5	11	6	34,4	7	50,3	34,46	1	0,8	8½ N	*δ Leonis.*
	9	18,0	11	10	47,0	12	12,0	47,53	4	0,77	2½ N	*υ Urs. Maj.*
	EMERSION of JUPITER's *first* Satellite. Time by Clock (S.) 15h 46' 56". Mean Time 12h 53' 20",09. Planet low, but clear: Observation good.											
										+		
6	49	22,2	2	50	39,0	51	53,0	45,84	1	1,06	- - -	☉ 1 L.
	51	35,0	2	52	52,0	54	7,0					☉ 2 L.
	10	46,3	10	12	5,0	13	20,0	4,88	1	0,88	7½ N	*γ Leonis.*
	59	48,5	11	1	33,4	3	14,0	33,4	1	0,60	32½ N	*ψ Urs. Maj.*
	5	16,0	11	6	35,0	7	51,0	34,83	1	0,60	8½ N	*δ Leonis.*
7	53	15,0	2	54	33,0	55	45,0	37,55	1	0,61	- - -	☉ 1 L.
	55	27,4	2	56	44,9	57	58,2					☉ 2 L.
	EMERSION of JUPITER's *first* Satellite. Time by Clock (S.) 10h 14' 55". Mean Time 7h 14' 27",70. Planet sufficiently high and clear: Observation good. The Satellite appeared 2' sooner than was expected, according to the time in the Ephemeris.											

In the YEAR M.DCCCXV.

DAY of the MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
MAY 7	50	41,0	10	52	58,0	55	8,9	57,88	3	+ 0,79	44¼ N	*β Urs. Maj.*
	59	49,2	11	1	34,0	3	15,0	34,98	1	0,77	32¼ N	*ψ Urs. Maj.*
	5	16,8	11	6	36,0	7	51,7	35,99	1	0,83	8¾ N	*δ Leonis.*
	9	20,0	11	10	48,5	12	13,6	48,1	1	0,87	21½ N	*ν Urs. Maj.*
	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.											
8	57	8,0	2	58	24,8	59	30,0	31,24	1	+ 1,09	. . .	⊙ 1 L.
	59	20,0	3	0	38,0	1	52,0					⊙ 2 L.
	10	48,0	10	12	7,0	13	22,0	6,81	2	0,95	7½ N	*γ Leonis.*
	59	50,0	11	1	34,8	3	15,8	34,93	1	0,8	32¼ N	*ψ Urs. Maj.*
	5	17,5	11	6	36,7	7	52,5	36,66	1	0,73	8¼ N	*δ Leonis.*
9	1	1,0	3	2	18,2	3	32,2	24,59	1	1,15	. . .	⊙ 1 L.
	3	15,0	3	4	31,2	5	45,0					⊙ 2 L.
	59	51,0	11	1	35,4	3	16,5	35,65	1	0,77	32¼ N	*ψ Urs. Maj.*
	5	18,4	11	6	37,5	7	53,5	37,31	1	0,90	8¼ N	*δ Leonis.*
	44	18,7	11	46	26,0	48	28,0	25,98	. .	. . .	41½ N	*γ Urs. Maj.*
10	4	55,0	3	6	12,0	7	26,6	18,57	1	1,18	. . .	⊙ 1 L.
	7	7,0	3	8	25,3	9	40,0					⊙ 2 L.
	59	52,0	11	1	36,5	3	17,3	36,65	1	0,97	32¼ N	*ψ Urs. Maj.*
	5	19,3	11	6	38,4	7	54,4	38,43	1	0,9	8¼ N	*δ Leonis.*
	9	22,5	11	10	51,0	12	15,7	51,38	1	0,73	21½ N	*ν Urs. Maj.*
	44	19,4	11	46	26,6	48	28,8	26,27	1	0,70	41½ N	*γ Urs. Maj.*
11	8	49,0	3	10	6,3	11	20,0	12,80	1	0,93	. . .	⊙ 1 L.
	11	2,0	3	12	20,0	13	34,0					⊙ 2 L.
	44	20,3	11	46	27,5	48	29,6	27,53	1	0,87	41½ N	*γ Urs. Maj.*
	6	6,0	12	7	20,0	8	30,2	19,78	. .	. . .	11½ N	♃ *Centrum.* 8ʰ 50′ 46″,70 mean Time.
	IMMERSION of JUPITER's *third* Satellite. Time by Clock (S.) 12ʰ 35′ 55″. Mean Time 9ʰ 19′ 17″,27. Planet near the Zenith: Clear: Observation good.											
12	12	43,4	3	14	1,0	15	15,5	7,90	1	+ 1,10	. . .	⊙ 1 L.
	14	57,0	3	16	15,0	17	29,0					⊙ 2 L.
13	16	39,0	3	17	57,0	19	11,4	3,27	1	0,87	. . .	⊙ 1 L.
	18	52,4	3	20	11,0	21	25,0					⊙ 2 L.
	5	22,0	11	6	41,3	7	57,0	40,93	3	0,9	8¾ N	*δ Leonis.*
	9	25,3	11	10	54,0	12	18,4	53,99	3	0,94	21½ N	*ν Urs. Maj.*
	40	45,0	-	-	-	43	15,0	0,57	. .	. . .	2¾ N	*β Leonis.*
14	20	35,0	3	21	52,0	23	7,0	58,75	1	0,48	. . .	⊙ 1 L.
	22	48,0	3	24	6,5	25	21,2					⊙ 2 L.
	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.											
15	24	31,0	3	25	49,0	27	4,6	56,13	1	+ 1,82	. . .	⊙ 1 L.
	26	45,0	3	28	3,5	29	18,0					⊙ 2 L.
16	28	29,0	3	29	46,0	31	1,0	53,44	1	1,11	. . .	⊙ 1 L.
	30	43,0	3	32	1,0	33	16,0					⊙ 2 L.
	Wound up the Clock: Arc of Vibration 1°: 38′.											
	59	55,0	11	1	40,0	3	21,0	40,08	6	+ 0,57	32¼ N	*ψ Urs. Maj.*
	5	23,0	11	6	42,0	7	58,0	41,83	3	0,91	8¼ N	*δ Leonis.*

In the YEAR M.DCCCXV.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock. +	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
MAY 16	44	23,0	11	46	30,0	48	33,0	30,30	6	0,62	41½ N	*γ Urs. Maj.*
	5	21,0	12	6	34,2	7	45,0	34,33	..	...	- - -	*Ψ Centrum.* 8h 30′ 18″,78 mean Time.
17	32	26,0	3	33	44,7	34	59,5					
	34	41,3	3	35	59,0	37	14,0	51,82	1	1,68	- - -	⊙ 1 L.
	59	55,8	11	1	41,0	3	21,8	40,98	1	0,87	32½ N	⊙ 2 L.
	5	24,0	11	6	43,0	7	59,0	42,83	1	1,0	8½ N	*ψ Urs. Maj.*
	13	12,5	11	14	28,2	15	42,2	28,55	..	...	2 S	*δ Leonis.*
	5	14,0	12	6	27,4	7	38,0	27,40	..	...	- - -	☽ 1 L. 7h 34′ 24″,25 mean Time.
												Ψ Centrum. 8h 26′ 14″,57 mean Time.
18	36	24,5	3	37	43,0	38	58,0					
	38	39,0	3	39	59,0	41	13,5	50,78	1	1,56	- - -	⊙ 1 L.
	5	24,7	11	6	43,8	8	0,0	43,88	1	0,83	8½ N	⊙ 2 L.
	44	24,4	11	46	31,8	48	34,5	31,93	2	0,78	41½ N	*δ Leonis.*
	5	7,2	12	6	21,0	7	32,0	21,03	..	...	12½ S	*γ Urs. Maj.*
	7	0,0	12	8	15,0	9	28,0	15,52	..	...	3½ S	*Ψ Centrum.* 8h 22′ 11″,16 mean Time.
												☽ 1 L. 8h 24′ 5″,32 mean Time.
19	40	23,4	3	41	42,0	42	57,0					
	42	38,0	3	43	57,0	45	12,2	49,03	1	0,45	- - -	⊙ 1 L.
												⊙ 2 L.
20	44	22,3	3	45	41,0	46	56,0					
	46	37,0	3	47	55,5	49	11,0	48,10	1	0,73	- - -	⊙ 1 L.
	5	25,5	11	6	44,7	8	1,4	44,88	2	0,51	8½ N	⊙ 2 L.
	44	25,0	11	46	33,3	48	35,4	33,05	2	0,50	41½ N	*δ Leonis.*
												γ Urs. Maj.
21	48	22,0	3	49	40,0	50	56,0					
	50	37,0	3	51	56,0	53	11,0	47,83	1	0,83	- - -	⊙ 1 L.
	59	59,0	11	1	44,0	3	24,6	43,98	4	0,75	32½ N	⊙ 2 L.
	5	26,2	11	6	45,3	8	1,8	45,46	1	0,57	8½ N	*ψ Urs. Maj.*
	40	50,0	-	-	-	43	20,0	5,57	8	0,62	2½ N	*δ Leonis.*
	44	25,7	11	46	34,0	48	36,0	33,73	1	0,67	41½ N	*β Leonis.*
												γ Urs. Maj.

EMERSION of JUPITER's *first* Satellite.
Time by Clock (S.) 15h 7′ 10″. Mean Time 11h 10′ 42″,06.
Planet sufficiently high, but hazy: Moonlight: Observation otherwise good.

A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.

										+		
22	52	22,2	3	53	41,0	54	57,0					
	54	37,7	3	55	56,7	57	12,0	48,84	1	1,51	- - -	⊙ 1 L.
	59	59,4	11	1	44,5	3	25,2	44,50	1	0,5	32½ N	⊙ 2 L.
	5	26,8	11	6	45,8	8	2,3	45,95	1	0,53	8½ N	*ψ Urs. Maj.*
												δ Leonis.
23	56	23,3	3	57	42,2	58	57,0					
	58	39,0	3	59	57,6	1	13,5	49,83	1	0,99	- - -	⊙ 1 L.
	-	-	11	1	45,0	3	25,7	45,05	1	0,53	32½ N	⊙ 2 L.
	5	27,5	11	6	46,3	8	2,8	46,53	1	0,57	8½ N	*ψ Urs. Maj.*
	9	30,0	11	10	59,0	12	24,0	59,33	10	0,51	21½ N	*δ Leonis.*
	44	26,8	11	46	35,0	48	37,0	34,75	2	0,51	41½ N	*υ Urs. Maj.*
	4	44,0	12	5	57,8	7	9,0	57,88	..	...	- - -	*γ Urs. Maj.*
												Ψ Centrum. 8h 2′ 6″,24 mean Time.
24	0	24,8	4	1	44,0	2	59,4					
	2	40,0	4	3	59,6	5	15,0	51,23	1	0,90	- - -	⊙ 1 L.
	0	0,6	11	1	45,7	3	26,2	45,63	1	0,6	32½ N	⊙ 2 L.
	5	28,0	11	6	47,0	8	3,3	47,13	1	0,57	8½ N	*ψ Urs. Maj.*
	9	30,8	11	10	59,4	-	-	59,45	1	0,60	21½ N	*δ Leonis.*
	40	53,0	11	42	9,0	43	22,8	9,23	3	0,97	2½ N	*υ Urs. Maj.*
	44	27,5	11	46	35,5	48	37,7	35,35	1	0,63	41½ N	*β Leonis.*
	4	42,7	12	5	55,0	7	6,0	- -	..	...	- - -	*γ Urs. Maj.*
	7	33,0	12	8	50,2	10	4,4	50,25	..	...	29½ S	*Ψ Centrum.* 7h 58′ 7″,59 mean Time.
												γ Corvi.
25	4	27,0	4	5	45,4	7	1,5					
	6	42,0	4	8	1,2	9	17,0	58,40	1	0,67	- - -	⊙ 1 L.
												⊙ 2 L.

In the YEAR M.DCCCXV.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
										+		
MAY 26	8	30,0	4	9	48,5	11	4,5	56,49	1	1,74	- - -	⊙ 1 L.
	10	45,0	4	12	4,5	13	20,0					⊙ 2 L.
	5	29,7	11	6	48,6	8	5,3	48,73	2	0,83	8¾ N	δ *Leonis.*
	40	54,8	11	42	10,7	43	24,4	10,90	2	0,65	2¼ N	β *Leonis.*
	44	29,0	11	46	37,0	48	39,4	36,90	2	0,78	41½ N	γ *Urs. Maj.*
	7	34,7	12	8	52,0	10	6,0	51,93	2	0,85	29¼ S	γ *Corvi.*
	25	56,0	12	27	15,2	28	32,0	15,08	..	...	35½ S	β *Hydræ.*
	33	38,0	12	-	-	36	2,0	51,15	..	...	13¼ S	γ *Virginis.*
27	-	-	4	-	-	15	8,0	59,77	1	2,58	- - -	⊙ 1 L.
	14	49,2	4	16	8,3	17	24,2					⊙ 2 L.
	4	38,3	12	5	52,2	7	3,0	52,2	..	...	- - -	ϒ *Centrum.* 7ʰ 46′ 13″,58 mean Time.
	25	56,7	12	27	16,0	28	32,8	16,35	1	0,77	35¼ S	β *Hydræ.*
	33	39,0	12	34	52,5	36	2,8	52,26	1	0,90	13¼ S	γ *Virginis.*
28	16	36,2	4	17	55,3	19	11,4	3,31	1	0,44	- - -	⊙ 1 L.
	18	52,0	4	20	12,0	21	28,0					⊙ 2 L.
	40	56,2	11	42	12,5	43	26,2	12,63	2	0,83	2¾ N	β *Leonis.*
	44	30,8	11	46	39,0	48	41,0	38,76	2	0,9	41¼ N	γ *Urs. Maj.*
	4	39,0	12	5	52,0	7	3,2	- -	..	...	- - -	ϒ *Centrum.* 7ʰ 42′ 17″,66 mean Time.
	7	36,4	12	8	53,8	10	8,0	53,66	2	0,91	29¼ S	γ *Corvi.*
	21	38,0	12	22	54,0	24	7,0	53,80	..	...	28¼ S	δ *Corvi.*
	25	57,6	12	27	16,8	28	33,7	17,20	1	0,87	35¼ S	β *Hydræ.*
	33	40,0	12	34	53,4	36	3,6	53,17	1	0,9	13¼ S	γ *Virginis.*
29	20	40,0	4	22	0,0	23	16,0	3,02	1	2,21	- - -	⊙ 1 L.
	22	56,0	4	24	16,3	25	32,5					⊙ 2 L.
	40	57,0	11	42	13,2	43	27,0	13,38	1	0,77	2¾ N	β *Leonis.*
	4	39,5	12	5	53,0	7	3,3	52,93	..	...	- - -	ϒ *Centrum.* 7ʰ 38′ 20″,73 mean Time.
	21	38,6	12	22	54,8	24	8,0	54,82	1	0,8	28¼ S	δ *Corvi.*
	25	58,3	12	27	17,7	28	34,4	17,84	1	0,77	35¼ S	β *Hydræ.*
	33	40,6	12	34	54,0	36	4,7	53,90	1	0,76	13¼ S	γ *Virginis.*
30	24	45,2	4	26	5,0	27	21,4	12,84	1	0,72	- - -	⊙ 1 L.
	27	1,6	4	28	21,0	29	36,6					⊙ 2 L.
	40	58,0	11	42	14,0	43	28,0	14,28	1	0,93	2¾ N	β *Leonis.*
	44	32,7	11	46	41,0	48	43,0	40,35	1	1,0	41¼ N	γ *Urs. Maj.*

EMERSION of JUPITER's *first* Satellite.
Time by Clock (S.) 12ʰ 5′ 25″. Mean Time 7ʰ 33′ 55″,93.
Planet near the Zenith: *flying* Clouds: Observation otherwise good.

										+		
	21	39,6	12	22	55,7	24	9,0	55,77	1	0,97	28¼ S	δ *Corvi.*
	25	59,0	12	27	18,8	28	35,3	18,95	1	0,90	35¼ S	β *Hydræ.*
	33	41,7	12	34	55,0	36	5,5	54,87	1	0,97	13¼ S	γ *Virginis.*
31	28	51,0	4	30	10,5	31	27,0	18,71	1	1,37	- - -	⊙ 1 L.
	31	7,2	4	32	26,6	33	43,0					⊙ 2 L.

Wound up the Clock: Arc of Vibration 1°: 37′,5.

										+		
	7	40,0	12	8	57,0	10	10,0	56,76	3	0,98	29¼ S	γ *Corvi.*
	21	40,5	12	22	56,6	24	10,0	56,70	1	0,93	28¼ S	δ *Corvi.*
	26	0,0	12	27	19,8	28	36,0	19,88	1	0,9	35¼ S	β *Hydræ.*
	33	42,7	12	34	56,0	36	6,6	55,90	1	1,03	13¼ S	γ *Virginis.*
JUNE 1	32	56,4	4	34	16,0	35	32,5	24,39	1	0,68	- - -	⊙ 1 L.
	35	13,0	4	36	32,8	37	49,5					⊙ 2 L.
2												

IMMERSION of JUPITER's *third* Satellite.
Time by Clock (S.) 12ʰ 1′ 35″. Mean Time 7ʰ 18′ 15″,88.
Planet near the Zenith: Clear: Observation good.

In the YEAR M.DCCCXV.

DAY of the MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names* or *Characters* of the STARS AND PLANETS.
JUNE 2	7	42,0	12	8	59,0	10	12,2	58,78	2	+0,98	29½ S	*γ Corvi.*
	21	42,5	12	22	58,7	24	12,6	58,86	2	1,12	28½ S	*δ Corvi.*
	26	2,7	12	27	22,5	28	38,7	22,37	2	1,35	35¼ S	*β Hydræ.*
	33	45,4	12	34	58,5	36	9,0	58,58	2	1,26	19½ S	*γ Virginis.*
	54	24,0	12	55	39,5	56	52,0	39,48	..	. . .	1½ S	*ε Virginis.*
												EMERSION of JUPITER's *third* Satellite. Time by Clock (S.) 14h 36′ 46″. Mean Time 9h 55′ 0″,83. Planet high and clear: Observation good.
3	41	10,0	4	42	30,0	43	46,0	37,75	2	+1,03	- - -	⊙ 1 L.
	43	26,0	4	44	46,4	46	2,5					⊙ 2 L.
	4	56,0	12	6	9,0	7	20,0	9,20	..	. . .	- - -	☿ *Centrum.* 7h 18′ 51″,74 mean Time.
	7	43,3	12	9	0,2	10	13,4	0,22	1	1,23	29½ S	*γ Corvi.*
	21	44,0	12	23	0,0	24	14,0	0,24	1	1,4	28½ S	*δ Corvi.*
	26	4,0	12	27	24,0	28	40,0	23,77	1	1,37	35½ S	*β Hydræ.*
	33	46,0	12	34	59,7	36	10,2	59,75	1	1,2	19½ S	*γ Virginis.*
	.	.	12	48	34,2	50	44,0	34,25	..	. . .	44½ N	*ε Urs. Maj.*
	54	25,2	12	55	41,0	56	53,3	40,85	1	1,33	1½ S	*ε Virginis.*
	16	55,5	13	18	10,0	19	22,0	10,10	..	. . .	23½ S	*Spicæ Virg.*
4	7	45,0	12	9	1,6	10	15,0	1,54	1	1,57	29½ S	*γ Corvi.*
	21	45,5	12	23	1,8	24	15,4	1,86	1	1,57	28½ S	*δ Corvi.*
	26	5,4	12	-	-	28	41,6	24,60	1	1,5	35¼ S	*β Hydræ.*
	.	.	12	35	1,0	36	12,0	1,18	1	1,55	19½ S	*γ Virginis.*
	54	26,6	12	55	42,5	-	-	42,56	1	1,45	1½ S	*ε Virginis.*
												A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.
5	-	-	4	50	45,0	52	1,5	53,0	2	+1,82	- - -	⊙ 1 L.
	51	41,3	4	53	2,0	54	18,4					⊙ 2 L.
	21	46,7	12	23	3,0	24	17,0	3,16	1	1,33	28½ S	*δ Corvi.*
	26	7,0	12	27	26,4	28	42,8	26,42	1	1,4	35¼ S	*β Hydræ.*
	33	49,0	12	35	2,3	36	13,2	2,43	1	1,25	19½ S	*γ Virginis.*
	54	28,0	12	55	43,6	56	55,5	43,21	1	1,25	1½ S	*ε Virginis.*
	.	.	13	12	59,0	14	26,3	59,20	..	. . .	44 N	*ζ Urs. Maj.*
	16	58,0	13	18	12,5	19	24,7	12,65	2	1,28	23½ S	*Spicæ Virg.*
6	53	33,0	4	54	53,0	56	9,0	1,60	1	1,60	- - -	⊙ 1 L.
	55	50,0	4	57	10,0	58	27,0					⊙ 2 L.
	5	13,0	12	6	26,0	7	37,0	26,2	..	. . .	- - -	☿ *Centrum.* 7h 7′ 16″,84 mean Time.
	.	.	12	9	4,0	10	18,0	4,17	2	1,37	29½ S	*γ Corvi.*
	21	48,0	12	23	4,5	24	18,5	4,56	1	1,37	28½ S	*δ Corvi.*
	26	8,8	12	27	28,0	28	44,0	27,85	1	1,37	35½ S	*β Hydræ.*
	54	29,2	12	55	45,0	56	56,8	44,73	1	1,3	1½ S	*ε Virginis.*
	16	59,4	13	18	14,0	19	26,0	14,25	1	1,4	23½ S	*Spicæ Virg.*
7	57	41,6	4	59	1,4	0	17,8	9,67	1	0,77	- - -	⊙ 1 L.
	59	58,0	5	1	18,0	2	35,0					⊙ 2 L.
	7	48,4	12	9	5,2	10	19,3	5,27	1	1,25	29½ S	*γ Corvi.*
	26	9,5	12	27	29,1	28	45,3	29,17	1	1,3	35½ S	*β Hydræ.*
8	1	50,0	5	3	10,0	4	27,0	16,82	1	−0,55	- - -	⊙ 1 L.
	4	7,0	5	5	27,0	6	43,3					⊙ 2 L.
	21	50,6	12	23	6,6	24	21,0	6,99	2	+1,23	28½ S	*δ Corvi.*
	46	26,0	12	48	40,8	50	50,6	40,40	2	1,25	44½ N	*ε Urs. Maj.*
9	5	58,5	5	7	19,0	8	35,0	26,87	1	1,15	- - -	⊙ 1 L.
	8	15,0	5	9	36,0	10	52,2					⊙ 2 L.
10	10	18,0	5	11	28,5	12	46,0	38,90	1	1,93	- - -	⊙ 1 L.
	12	25,0	5	-	-	15	1,5					⊙ 2 L.

In the YEAR M.DCCCXV.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
JUNE 11	14	17,7	5	15	38,5	16	55,5			+		
	16	35,7	5	17	56,4	19	13,3	47,13	1	1,93	- - -	☉ 1 L.
	-	-	12	27	32,8	28	49,5					☉ 2 L.
	54	34,4	12	55	49,5	57	2,4	32,85	4	0,95	35½ S	*β Hydræ.*
								49,70	5	1,03	1¼ S	*ε Virginis.*
12	18	27,5	5	19	47,6	21	4,5					
	20	45,7	5	22	5,5	23	23,5	56,58	1	0,85	- - -	☉ 1 L.
	21	54,8	12	23	11,5	24	21,0	11,19	4	1,01	28¼ S	☉ 2 L.
	26	14,5	12	27	33,6	28	50,7	33,87	1	1,0	35¼ S	*δ Corvi.*
	33	55,4	2	-	-	36	20,7	9,51	1	1,1	13¼ S	*β Hydræ.*
												γ Virginis.
13	22	37,6	5	23	57,6	25	14.5					
	24	55,5	5	26	15,7	27	33,5	6,73	1	1,35	- - -	☉ 1 L.
	-	-	12	27	35,0	28	51,7	35,10	1	1.2	35¼ S	☉ 2 L.
	33	57,0	12	35	11,8	36	22,5	11,50	1	1,7	13¼ S	*β Hydræ.*
	-	-	12	48	45,8	50	55,4	45,82	2	1,2	44 N	*γ Virginis.*
	54	37.4	12	55	53,4	57	5,5	53,15	2	1,55	1¼ S	*ε Urs. Maj.*
	17	6,5	13	18	21,6	19	33,6	21,25	7	1,03	23¼ S	*ε Virginis.*
												Spicæ Virg.
14	26	47,6	5	28	7,5	29	25,8					
	29	6,6	5	30	25,6	31	42,6	16,85	1	1,22	- - -	☉ 1 L.
	26	17,5	12	27	36,6	28	53,4	36,77	1	1,65	35¼ S	☉ 2 L.
	33	58,5	12	35	12,7	36	23,5	12,58	1	1,13	13¼ S	*β Hydræ.*
	46	32,8	12	48	47,6	50	56,5	46,98	1	1,45	44 N	*γ Virginis.*
	17	8,0	13	18	22,4	19	33,0	22,45	1	1,43	23¼ S	*ε Urs. Maj.*
												Spicæ Virg.
15	30	57,6	5	32	17,0	33	34,5					
	33	15,6	5	34	35,2	35	53,5	26,45	1	0,50	- - -	☉ 1 L.
	34	0,5	12	35	14,4	36	25,5	14,43	1	1,9	13¼ S	☉ 2 L.
	44	8,0	12	45	23,4	46	39,0	23,17	..	...	12 S	*γ Virginis.*
												☽ 1 L. 7h 10′ 33″,95 mean Time.
16	35	8,0	5	36	28,0	37	45,8					
	37	26,8	5	38	46,6	40	6,0	37,85	1	2,20	- - -	☉ 1 L.
												☉ 2 L.

Wound up the Clock: Arc of Vibration 1°: 32′. Lengthened the Pendulum 2 Divisions.

17	39	6,0	5	40	26,3	41	43,4					
	41	23,3	5	42	44,0	44	1,2	35,08	..	...	- - -	☉ 1 L.
	17	0,0	13	18	14,0	19	26,0	14.23	..	...	23¼ S	☉ 2 L.
	26	2,5	14	27	18,0	28	32,0	17,85	..	...	- - -	*Spicæ Virg.*
												☽ 1 L. 8h 44′ 30″,17 mean Time.
18	43	16,0	5	44	36,3	45	53,2					
	45	33,0	5	46	53,0	48	10,4	44,37	1	−0,01	- - -	☉ 1 L.
	17	0,5	13	18	14,8	19	26,2	14,60	1	+0,37	23¼ S	☉ 2 L.
	8	42,0	14	10	0,5	11	15,0	0,03	..	...	7¼ N	*Spicæ Virg.*
												Arcturus.
19	17	0,6	13	18	14,8	19	26,0	14,78	1	0,1	23¼ S	*Spicæ Virg.*

LUNAR ECLIPSE *(Total.)*

21

	Time by Clock.	*Apparent Time.*
Beginning (Cloudy.)		
Beginning of Total Darkness . . .	17h 20′ 51″.	11h 20′ 30″,7.
End of Do.	41 5.	40 41,2.
End (Cloudy.)		

The Moon Cloudy except at the times above inserted; and the time of the latter Observation was rendered in a great degree uncertain, owing to flying Clouds.

22	59	54,2	6	1	14,3	2	32,0			+		
	2	12,0	6	3	32,3	4	50,0	23,30	4	1,13	- - -	☉ 1 L.
												☉ 2 L.
23	4	5,0	6	5	25,0	6	42,4					
	6	22,0	6	7	42,2	9	0,2	33,60	1	0,80	- - -	☉ 1 L.
												☉ 2 L.

In the YEAR M.DCCCXV.

DAY OF THE MONTH.	I. Wire.	MERIDIAN.	III. Wire.	Reduction of Wires.	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
	M S	H M S	M S	S				
JUNE 24	- -	6 9 35,0	10 51,6	43,20	1	+ 0,30	- - -	⊙ 1 L.
	10 32,0	6 11 52,0	13 9,0					⊙ 2 L.
25	12 22,4	6 13 43,7	15 0,4	52,32	1	−0,28	- - -	⊙ 1 L.
	14 41,4	6 16 1,0	17 19,0					⊙ 2 L.
	17 1,6	13 18 16,0	19 28,0	16,13	6	+0,23	23½ S	*Spicæ Virg.*
	- -	13 28 5,0	29 16,6	5,6	..	. . .	13 S	*ζ Virginis.*
	41 8,6	13 43 3,0	44 54,0	3,07	..	. . .	37½ N	*η Urs. Maj.*
	47 23,2	13 - -	49 56,0	41,12	..	. . .	6½ N	*η Bootis.*
	8 44,0	14 10 2,4	11 17,5	2,33	7	0,3	7½ N	*Arcturus.*
	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.							
27	41 9,5	13 43 4,0	44 54,7	3,97	2	+ 0,43	37½ N	*η Urs. Maj.*
	8 45,0	14 10 3,2	11 18,3	3,18	2	0,43	7½ N	*Arcturus.*
28	24 52,2	6 26 12,5	27 29,6	20,80	1	1,08	- - -	⊙ 1 L.
	27 10,0	6 28 29,4	29 47,0					⊙ 2 L.
	26 55,0	13 28 6,3	29 17,2	6,41	3	0,45	13 S	*ζ Virginis.*
	41 9,8	13 43 4,3	44 55,0	4,27	1	0,30	37½ N	*η Urs. Maj.*
	47 24,4	13 48 42,0	49 57,0	42,11	3	0,37	6½ N	*η Bootis.*
	57 10,0	13 58 40,0	0 7.0	39,98	..	. . .	38½ S	*π Hydræ.*
	8 45,8	14 10 4,0	11 19,2	3,78	1	0,83	7½ N	*Arcturus.*
	- -	14 43 30,0	44 43,0	30,15	..	. . .	28½ S	*α Libræ.*
29	29 1,0	6 30 21,0	31 38,0	20,83	1	0,13	- - -	⊙ 1 L.
	31 18,4	6 32 39,0	33 56,0					⊙ 2 L.
	26 53,4	13 28 7,0	29 17,8	7,15	1	0,57	13 S	*ζ Virginis.*
	41 10,2	13 43 5,0	44 55,4	4,82	1	0,5	37½ N	*η Urs. Maj.*
	47 24,8	13 48 42,7	49 57,6	42,71	1	0,57	6½ N	*η Bootis.*
	57 10,5	13 58 40,4	0 7,7	40,70	1	0,53	38½ S	*π Hydræ.*
	8 46,8	14 10 4,5	11 20,0	4,58	1	0,60	7½ N	*Arcturus.*
	EMERSION of JUPITER's *second* Satellite. Time by Clock (S.) 15h 20′ 2″,5. Mean Time 8h 49′ 52″,05. Planet sufficiently high, but somewhat hazy: Observation otherwise good.							
	EMERSION of JUPITER's *first* Satellite. Time by Clock (S.) 16h 11′ 20″. Mean Time 9h 41′ 1″,12. Planet sufficiently high, but hazy: the Observation otherwise good.							
30	33 9,5	6 34 29,2	35 46,0	38,05	1	− 0,48	- - -	⊙ 1 L.
	35 27,0	6 36 47,0	38 4,2					⊙ 2 L.
JULY 1	37 19,0	6 38 39,5	39 56,0	47,48	1	0,93	- - -	⊙ 1 L.
	39 36,0	6 40 56,3	42 14,0					⊙ 2 L.
	Wound up the Clock: Arc of Vibration 1°: 38′.							
2	41 27,2	6 42 47,2	44 5,0	55,86	1	− 0,08	- - -	⊙ 1 L.
	43 44,0	6 45 4,5	46 22,0					⊙ 2 L.
	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.							
3	45 35,2	6 46 55,6	48 12.3	3,95	1	+ 0,09	- - -	⊙ 1 L.
	47 52,3	6 49 12,2	50 30,0					⊙ 2 L.
	8 46,0	14 10 4,4	11 19,3	4,03	4	0,07	7½ N	*Arcturus.*

In the YEAR M.DCCCXV.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. h	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
JULY 4	49	42,5	6	51	2,5	52	21,0	10,62	1	1,23	- - -	☉ 1 L.
	52	1,0	6	53	20,4	54	38,0					☉ 2 L.
	8	43,7	14	10	4,2	11	19,2	4,08	1	0,20	7½ N	*Arcturus.*
5	53	51,4	6	55	12,0	56	28,6	19,95	1	+1,83	- - -	☉ 1 L.
	56	8,0	6	57	28,0	58	45,4					☉ 2 L.
	-	-	14	26	37,0	28	14,0	37,50	..	...	54½ S	*ϰ Centauri.*
	49	11,0	15	50	32,0	51	50,0	31,79	..	...	38½ S	*π Scorpionis.*
6	57	58,0	6	59	18,0	0	36,2	27,03	1	0,20	- - -	☉ 1 L.
	0	15,5	7	1	36,0	2	52,2					☉ 2 L.
	8	46,0	14	10	4,5	11	20,0	4,51	2	0,23	7½ N	*Arcturus.*
	27	33,0	14	29	59,0	32	21,0	58,80	..	...	73½ S	*ϰ Centauri.*
	49	11,3	15	50	32,2	51	50,3	32,26	1	0,27	38½ S	*π Scorpionis.*
	56	15,0	15	57	33,5	58	48,5	33,36	..	...	32½ S	*β Scorpionis.*
7	Cloudy.											
8	6	13,2	7	7	33,2	8	50,0	41,62	2	0,81	- - -	☉ 1 L.
	8	30,0	7	9	50,0	11	7,0					☉ 2 L.
	8	47,2	14	10	6,0	11	21,2	5,86	2	0,65	7½ N	*Arcturus.*
	27	34,0	14	30	0,0	32	22,0	59,80	2	0,50	73½ S	*ϰ Centauri.*
	38	23,2	14	39	46,0	41	6,0	46,08	..	...	15 N	*ε Bootis.*
	-	-	14	43	31,4	44	44,7	31,45	4	0,32	28½ S	*α Librœ.*
9	10	20,0	7	11	39,4	12	56,2	47,66	1	−0,16	- - -	☉ 1 L.
	12	36,0	7	13	56,0	15	13,0					☉ 2 L.
	-	-	14	30	0,2	32	22,0	0,30	1	+0,10	73½ S	*α Centauri.*
	38	23,0	14	39	46,2	41	6,0	45,91	1	0,0	15 N	*ε Bootis.*
	42	15,0	14	43	32,0	44	45,0	31,71	1	0,45	28½ S	*α Librœ.*
	8	41,0	15	9	56,0	11	8,0	55,72	..	...	21½ S	*β Librœ.*
	21	39,7	15	23	4,8	24	26,0	4,37	..	...	16½ N	*β Coron. Bor.*
	36	48,0	15	38	2,0	39	13,0	1,72	..	...	6½ S	*α Serpentis.*
	41	37,0	15	42	51,0	44	1,0	50,70	..	...	16 S	*μ Serpentis.*
	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.											
10	14	25,0	7	15	45,0	17	2,2	53,60	1	+0,24	- - -	☉ 1 L.
	16	42,0	7	18	2,2	19	19,0					☉ 2 L.
	8	41,4	15	9	56,3	11	8,2	56,25	1	0,30	21½ S	*β Librœ.*
	28	20,3	15	29	44,2	31	3,3	43,80	1	0,27	14½ N	*α Coron. Bor.*
	41	37,4	15	42	51,0	44	1,2	50,87	1	0,23	16 S	*μ Serpentis.*
	49	12,0	15	50	33,3	51	52,0	33,41	4	0,29	38½ S	*π Scorpionis.*
	56	16,0	15	57	34,4	58	49,3	34,26	4	0,25	32½ S	*β Scorpionis.*
11	18	31,4	7	19	51,0	21	7,5	59,28	1	0,38	- - -	☉ 1 L.
	20	48,0	7	22	8,0	23	25,0					☉ 2 L.
	27	35,5	14	30	1,0	32	22,6	0,82	2	0,35	73½ S	*α Centauri.*
	38	23,0	14	39	46,5	41	6,2	46,28	1	0,03	15 N	*ε Bootis.*
	42	15,2	14	43	32,0	44	45,2	31,81	2	0,06	28½ S	*α Librœ.*
	8	41,7	15	9	56,2	11	8,0	56,22	1	0,0	21½ S	*β Librœ.*
	21	40,0	15	23	4,8	-	-	4,43	2	0,2	16½ N	*β Coron. Bor.*
	36	48,2	15	38	2,5	39	13,2	2,30	1	0,1	6½ S	*α Serpentis.*
	49	12,0	15	50	33,2	51	52,0	33,36	1	−0,03	38½ S	*π Scorpionis.*
	-	-	15	57	34,5	58	49,2	34,60	1	0,0	32½ S	*β Scorpionis.*
12	22	36,5	7	23	55,4	25	12,0	3,86	1	0,78	- - -	☉ 1 L.
	24	52,0	7	26	12,2	27	29,0					☉ 2 L.
	27	35,2	14	30	0,4	32	22,3	0,37	1	+0,2	73½ S	*α Centauri.*
	38	23,3	14	39	46,8	41	6,6	46,66	1	0,33	15 N	*ε Bootis.*
	42	15,6	14	43	32,2	44	45,3	32,04	1	0,23	28½ S	*α Librœ.*
	8	42,0	15	9	56,0	11	8,0	56,20	1	0,03	21½ S	*β Librœ.*
	49	12,2	15	50	33,3	51	52,0	33,46	1	0,10	38½ S	*π Scorpionis.*
	56	16,0	15	57	34,2	58	49,0	34,36	1	−0,25	32½ S	*β Scorpionis.*

In the YEAR M.DCCCXV.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock. +	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
JULY 13	26	41,0	7	28	0,2	29	17,0					
	28	57,0	7	30	17,0	31	34,0	8,58	1	0,32	- - -	☉ 1 L.
	-	-	14	30	0,7	32	22,5					☉ 2 L.
	38	24,0	14	39	47,5	41	7,6	0,75	1	0,25	73½ S	*α Centauri.*
	42	16,5	14	43	32,6	44	45,7	47,44	1	0,80	15 N	*ε Bootis.*
	8	42,5	15	9	56,8	11	8,6	32,56	1	0,57	28½ S	*α Libræ.*
								56,87	1	0,63	21½ S	*β Libræ.*
14	30	45,5	7	32	5,2	33	21,0					
	33	2,0	7	34	21,0	35	37,0	12,90	1	0,52	- - -	☉ 1 L.
												☉ 2 L.
15	34	50,0	7	36	9,0	37	25,0					
	37	5,0	7	38	25,0	39	41,0	16,80	1	0,50	- - -	☉ 1 L.
												☉ 2 L.
16	Wound up the Clock: Arc of Vibration 1°: 38'.											
	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.											
17	42	56,0	7	44	15,0	45	31,3					
	45	12,0	7	46	30,5	47	47,5	23,0	2	0,80	- - -	☉ 1 L.
	42	17,0	14	43	33,0	14	46,0					☉ 2 L.
	8	43,0	15	9	57,3	11	9,0	32,74	4	0,24	28½ S	*α Libræ.*
	21	41,0	15	23	6,0	24	27,0	57,37	4	0,27	21½ S	*β Libræ.*
	28	22,0	15	29	45,0	31	5,0	5,79	6	0,19	16½ N	*β Coron. Bor.*
	36	49,0	15	38	3,0	39	14,0	44,81	7	0,20	14½ N	*α Coron. Bor.*
	49	13,0	15	50	34,5	51	55,0	2,72	6	0,12	6½ S	*α Serpentis.*
	56	17,0	15	57	35,0	58	50,6	34,51	5	0,20	38½ S	*π Scorpionis.*
								34,76	5	0,19	32½ S	*β Scorpionis.*
18	46	58,0	7	48	17,6	49	33,2					
	49	14,4	7	50	33,2	51	49,4	25,20	1	0,30	- - -	☉ 1 L.
	8	43,0	15	9	57,5	11	9,2					☉ 2 L.
	21	41,2	15	23	6,0	24	27,3	57,50	1	0,13	21½ S	*β Libræ.*
	-	-	15	29	45,2	31	5,2	5,92	1	0,17	16½ N	*β Coron. Bor.*
	-	-	15	42	52,0	14	3,4	45,35	1	0,20	14½ N	*α Coron. Bor.*
	49	13,7	15	50	35,0	51	53,2	52,32	1	0,20	16 S	*μ Serpentis.*
								34,99	1	0,47	38½ S	*π Scorpionis.*
19	51	0,0	7	52	19,0	53	35,0					
	53	15,2	7	54	33,0	55	50,4	26,85	1	0,45	- - -	☉ 1 L.
	42	17,2	14	43	33,3	14	46,4					☉ 2 L.
	8	43,2	15	9	58,0	11	9,3	33,26	2	0,15	28½ S	*α Libræ.*
	21	41,6	15	23	6,4	24	27,2	57,82	1	0,27	21½ S	*β Libræ.*
	28	23,0	15	29	45,5	31	5,2	5,98	1	0,23	16½ N	*β Coron. Bor.*
	36	49,6	15	38	4,0	39	13,0	45,58	1	0,15	14½ N	*α Coron. Bor.*
	41	39,0	15	42	52,4	14	3,5	3,85	2	0,43	6½ S	*α Serpentis.*
	49	14,0	15	50	35,3	51	53,3	52,52	1	0,25	16 S	*μ Serpentis.*
								35,24	1	0,23	38½ S	*π Scorpionis.*
20	55	1,5	7	56	20,0	57	36,0					
	57	16,7	7	58	35,5	59	52,0	27,92	1	0,27	- - -	☉ 1 L.
	8	43,6	15	9	58,2	11	9,4					☉ 2 L.
	21	42,0	15	23	6,2	24	27,6	57,82	1	0,23	21½ S	*β Libræ.*
	28	23,3	15	29	45,5	31	5,3	6,34	1	0,27	16½ N	*β Coron. Bor.*
	36	50,0	15	38	4,3	39	15,2	45,83	1	0,23	14½ N	*α Coron. Bor.*
	41	39,0	15	42	52,8	44	4,0	4,15	1	0,30	6½ S	*α Serpentis.*
	49	14,2	15	50	35,5	51	53,8	52,62	1	0,30	16 S	*μ Serpentis.*
								35,51	1	0,30	38½ S	*π Scorpionis.*
21	59	3,0	8	0	21,6	1	37,0					
	1	17,0	8	2	36,4	3	52,0	28,25	1	1,18	- - -	☉ 1 L.
												☉ 2 L.
22	3	2,5	8	4	21,0	5	36,8					
	5	17,0	8	6	36,2	7	52,0	28,57	1	0,08	- - -	☉ 1 L.
												☉ 2 L.
24	11	3,0	8	12	24,0	13	37,0					
	18	15,0	8	14	35,5	Cloudy.		28,61	2	1,18	- - -	☉ 1 L.
												☉ 2 L.
25	} Cloudy.											
26												
27												

In the YEAR M.DCCCXV.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
JULY 28	-	-	8	28	11,0	29	26,0	16,88	..	...	- - -	☉ 1 L.
	29	5,0	8	30	23,5	31	41,0					☉ 2 L.
29	30	50,0	8	32	8,2	33	22,5	14,42	1	+1,96	- - -	☉ 1 L.
	33	3,2	8	34	21,3	35	37,0					☉ 2 L.
	-	-	16	7	38,4	8	48,0	38,45	..	...	16½ S	*δ Ophiuchi.*
	11	35,0	16	12	56,0	14	14,0	55,79	..	...	38½ S	*σ Scorpionis.*
	28	43,0	16	29	57,0	31	9,0	57,31	..	...	23½ S	*ζ Ophiuchi.*
	35	50,0	16	37	17,0	38	40,0	16,81	..	...	19 N	*ζ Herculis.*
30	34	44,0	8	36	2,5	37	17,0	8,93	1	−0,59	- - -	☉ 1 L.
	36	58,0	8	38	16,2	39	31,0					☉ 2 L.
	36	54,0	15	38	8,0	39	19,0	7,72	10	+0,38	6½ S	*α Serpentis.*
	41	43,0	15	42	56,0	44	8,0	56,22	10	0,37	16 S	*μ Serpentis.*
	11	35,3	16	12	56,0	14	14,2	56,14	1	0,17	38½ S	*σ Scorpionis.*
	28	43,0	16	29	57,4	31	9,2	57,53	1	0,20	23½ S	*ζ Ophiuchi.*
	35	50,4	16	37	17,0	38	40,3	16,98	1	0,23	19 N	*ζ Herculis.*
	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.											
31	38	40,0	8	39	57,0	41	12,0	4,19	1	+0,76	- - -	☉ 1 L.
	40	53,0	8	42	11,8	43	26,0					☉ 2 L.
	36	54,2	15	38	8,0	19	19,2	8,04	1	0,13	6½ S	*α Serpentis.*
	41	43,0	15	42	56,2	44	7,8	56,50	1	0,0	16 S	*μ Serpentis.*
	49	17,0	15	50	38,4	51	57,0	38,46	11	0,30	38½ S	*π Scorpionis.*
	56	21,5	15	57	39,0	58	55,0	39,36	54	0,32	52½ S	*β Scorpionis.*
	6	24,0	16	7	38,2	8	48,4	37,89	2	0,10	16½ S	*δ Ophiuchi.*
	11	35,5	16	12	56,0	14	14,3	56,22	1	0,10	38½ S	*σ Scorpionis.*
	19	41,0	16	21	3,0	22	22,0	2,79	..	...	39½ S	*Antares.*
	-	-	16	27	21,0	28	41,0	21,15	..	...	41 S	*τ Scorpionis.*
	35	50,9	16	37	17,0	38	40,4	16,96	1	0,10	19 N	*ζ Herculis.*
AUGUST 1	42	33,3	8	43	51,0	45	5,5	57,68	1	−0,41	- - -	☉ 1 L.
	44	46,0	8	46	5,0	47	19,0					☉ 2 L.
	Wound up the Clock: Arc of Vibration 1°: 38′.											
	19	41,0	16	21	3,0	22	21,5	2,97	1	0,17	39½ S	*Antares.*
	35	58,0	16	37	21,0	28	41,0	20,90	1	0,0	41 S	*τ Scorpionis.*
	35	50,2	16	37	17,0	38	40,0	16,96	1	0,13	19 N	*ζ Herculis.*
2	46	27,0	8	47	45,0	48	58,6	51,22	1	+0,34	- - -	☉ 1 L.
	48	40,3	8	49	58,0	51	13,2					☉ 2 L.
	41	43,0	15	42	56,0	44	7,0	56,54	3	−0,16	16 S	*μ Serpentis.*
	49	17,0	15	50	39,0	51	57,0	38,85	2	+0,1	38½ S	*π Scorpionis.*
	56	22,0	15	57	39,4	58	54,5	39,64	2	0,06	52½ S	*β Scorpionis.*
	6	24,0	16	7	37,6	8	48,0	37,57	2	−0,16	16½ S	*δ Ophiuchi.*
	11	35,0	16	12	55,4	14	14,0	55,54	2	0,24	38½ S	*σ Scorpionis.*
	19	41,0	16	21	3,0	22	22,0	2,87	1	0,17	39½ S	*Antares.*
	28	42,2	16	29	57,0	31	8,8	56,81	3	0,18	23½ S	*ζ Ophiuchi.*
	35	50,0	16	37	17,5	38	40,0	17,16	1	+0,1	19 N	*ζ Herculis.*
	-	-	17	29	19,0	30	31,0	19,48	..	...	¼ S	*α Ophiuchi.*
3	50	21,0	8	51	38,0	52	52,3	44,62	1	0,60	- - -	☉ 1 L.
	52	33,2	8	53	51,5	55	6,0					☉ 2 L.
	49	17,0	15	50	39,0	51	57,0	38,85	1	0,0	38½ S	*π Scorpionis.*
	56	22,0	15	57	39,0	58	54,3	39,39	1	−0,2	52½ S	*β Scorpionis.*
	-	-	16	29	57,2	31	9,0	57,35	1	+0,2	23½ S	*ζ Ophiuchi.*
	35	50,3	16	37	17,3	38	40,1	17,25	1	−0,07	19 N	*ζ Herculis.*
	7	55,0	17	9	11,0	10	24,0	10,82	..	...	1½ N	*α Herculis.*
	28	4,0	17	29	19,2	30	31,4	19,24	1	+0,2	¼ S	*α Ophiuchi.*
	36	5,0	17	37	18,5	38	29,0	18,50	..	...	8½ S	*β Ophiuchi.*
4	54	13,3	8	55	30,2	56	44,0	35,96	1	−0,76	- - -	☉ 1 L.
	56	26,0	8	57	43,5	58	57,0					☉ 2 L.

In the YEAR M.DCCCXV.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock. +	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
AUGUST 4	19	41,0	16	21	3,3	22	22,2	3,27	2	0,17	39¼ S	*Antares.*
	28	42,3	16	29	57,5	31	9,0	57,36	1	0,27	23½ S	*ζ Ophiuchi.*
5	58	5,0	8	59	22,0	0	36,5	28,26	1	0,16	- - -	⊙ 1 L.
	0	17,0	9	1	35,0	2	48,5					⊙ 2 L.
	56	22,0	15	57	39,2	58	54,6	39,57	2	0,08	32½ S	*β Scorpionis.*
	-	-	16	21	3,3	22	22,2	3,40	1	0,0	39¼ S	*Antares.*
	28	42,4	16	29	57,2	31	9,0	57,23	1	0,0	23½ S	*ζ Ophiuchi.*
	35	50,4	16	37	17,3	38	40,2	17,21	2	0,04	19 N	*ζ Herculis.*
	28	4,0	17	29	19,5	30	31,6	19,44	2	0,08	¼ S	*α Ophiuchi.*
6	1	55,6	9	3	14,0	4	27,0	19,86	1	0,70	- - -	⊙ 1 L.
	4	9,0	9	5	26,4	6	40,0					⊙ 2 L.
	11	39,4	16	12	56,0	14	14,4	56,26	4	0,12	38½ S	*σ Scorpionis.*
	19	42,0	16	21	4,0	22	24,3	3,92	1	0,40	39¼ S	*Antares.*
	28	43,0	16	29	57,3	31	9,5	57,57	1	0,4	23½ S	*ζ Ophiuchi.*
	35	51,0	16	37	18,0	38	41,0	17,91	1	0,7	19¼ N	*ζ Herculis.*
	7	55,6	17	9	11,7	10	25,0	11,79	3	0,27	1½ N	*α Herculis.*
	28	4,5	17	29	20,0	30	31,8	19,62	1	0,4	¼ S	*α Ophiuchi.*
	36	5,6	17	37	19,0	38	29,7	19,08	3	0,2	8¼ S	*β Ophiuchi.*
	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.											
7	5	48,2	9	7	5,0	8	19,0	10,97	1	1,71	- - -	⊙ 1 L.
	8	0,0	9	9	17,0	10	31,0					⊙ 2 L.
	19	42,5	16	21	4,2	22	22,7	4,27	1	0,37	39¼ S	*Antares.*
	35	51,4	16	37	18,4	38	41,4	18,31	1	0,4	19 N	*ζ Herculis.*
8	9	39,0	9	10	55,5	12	9,0	1,27	1	0,60	- - -	⊙ 1 L.
	11	50,4	9	13	7,5	14	22,0					⊙ 2 L.
9	13	28,0	9	14	44,3	15	59,0	50,91	1	0,44	- - -	⊙ 1 L.
	15	40,0	9	16	58,0	18	10,5					⊙ 2 L.
	28	6,0	17	29	21,3	30	33,0	21,69	3	0,44	1¼ S	*α Ophiuchi.*
	36	6,7	17	37	21,2	38	30,8	20,73	3	0,49	8¼ S	*β Ophiuchi.*
10	17	17,0	9	18	34,2	19	48,0	38,75	1	0,66	- - -	⊙ 1 L.
	19	29,0	9	20	45,0	21	59,5					⊙ 2 L.
	6	26,0	16	7	40,0	8	50,0	39,77	8	0,25	16¼ S	*ϑ Ophiuchi.*
	11	37,0	16	12	58,0	14	16,0	57,84	4	0,43	38½ S	*σ Scorpionis.*
	19	44,0	16	-	-	22	24,0	5,69	3	0,47	39¼ S	*Antares.*
	28	45,0	16	29	59,0	31	11,0	59,28	4	0,43	23½ S	*ζ Ophiuchi.*
	7	58,0	17	9	14,0	-	-	14,40	4	0,59	1¼ N	*α Herculis.*
	19	41,0	17	21	18,0	22	42,0	12,99	..	...	50½ S	*ν Scorpionis.*
	-	-	17	27	3,3	28	40,0	3,42	..	...	56 S	*θ Scorpionis.*
	31	9,0	17	32	43,0	34	14,0	43,01	..	...	52 S	*κ Scorpionis.*
11	-	-	9	22	22,2	23	36,0	27,07	1	1,2	- - -	⊙ 1 L.
	25	17,0	9	-	-	-	-					⊙ 2 L.
	11	37,7	16	12	59,0	14	17,0	59,03	1	0,9	38½ S	*σ Scorpionis.*
	19	44,6	16	21	6,0	22	24,6	6,14	1	0,6	39¼ S	*Antares.*
	28	45,5	16	30	0,0	31	11,5	59,77	1	0,67	23½ S	*ζ Ophiuchi.*
	35	53,0	16	37	20,0	38	43,0	19,81	4	0,40	19 N	*ζ Herculis.*
12	24	54,0	9	26	10,5	27	24,0	15,85	1	1,48	- - -	⊙ 1 L.
	27	5,0	9	28	22,5	29	35,0					⊙ 2 L.
	25	24,0	17	27	4,3	28	40,7	4,29	2	0,42	56 S	*δ Scorpionis.*
	36	8,0	17	-	-	38	33,0	22,16	..	...	8¼ S	*β Ophiuchi.*
13	28	42,4	9	29	59,0	31	12,0	3,72	1	1,07	- - -	⊙ 1 L.
	30	53,4	9	32	9,0	33	21,0					⊙ 2 L.
	31	10,4	17	32	45,0	34	15,6	44,99	1	0,8	52 S	*κ Scorpionis.*
	36	8,8	17	37	23,0	38	34,0	22,95	1	0,9	8¼ S	*β Ophiuchi.*
14	32	29,0	9	33	46,0	34	59,0	50,82	1	1,0	- - -	⊙ 1 L.
	34	40,0	9	35	56,0	-	-					⊙ 2 L.

In the YEAR M.DCCCXV.

DAY of the MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
										+		
AUGUST 14	8	0,0	17	9	16,0	10	29,0	15,79	4	0,5	11½ N	*α Herculis.*
	19	43,0	17	21	15,0	22	44,0	14,99	2	0,55	50½ S	*υ Scorpionis.*
	24	14,0	17	25	35,3	26	53,5	35,41	. .	. . .	- - -	☽ 1 L. 7h 54′ 0″,22 mean Time.
	31	11,0	17	32	45,7	34	16,3	45,71	1	0,67	52 S	*κ Scorpionis.*
	36	9,3	17	37	23,6	38	34,5	23,50	1	0,57	84 S	*β Ophiuchi.*
15	18	41,6	18	20	4,0	21	23,0	4,06	. .	. . .	- - -	☽ 1 L. 8h 44′ 25″,69 mean Time.
16	40	2,5	9	41	18,0	42	30,0	23,11	2	1,59	- - -	☉ 1 L.
	42	12,0	9	43	28,0	44	42,0					☉ 2 L.
	Wound up the Clock : Arc of Vibration 1° : 33′.											
										+		
	9	10,0	17	10	31,0	11	49,0	30,88	. 7	0,71	12½ N	*δ Herculis.*
	32	11,5	18	33	45,0	35	16,0	45,25	. .	. . .	25½ N	*α Lyræ.*
17	43	47,5	9	45	3,5	46	16,5	8,79	1	1,18	- - -	☉ 1 L.
	45	58,0	9	47	14,0	48	27,0					☉ 2 L.
	9	10,4	17	10	31,3	11	49,6	31,30	1	0,43	12½ N	*δ Herculis.*
	22	37,0	17	24	9,0	25	38,0	8,99	. .	. . .	50½ S	*λ Scorpionis.*
	32	12,2	18	33	45,7	35	16,7	45,95	1	0,7	25½ N	*α Lyræ.*
18	-	-	9	48	48,0	50	1,5	53,39	1	0,80	- - -	☾ 1 L.
	49	42,4	9	50	59,3	52	12,0					☉ 2 L.
	35	58,0	16	37	25,0	38	47,8	24,86	7	0,7	19 N	*ζ Herculis.*
	22	37,8	17	24	9,7	25	38,6	9,96	1	0,7	50½ S	*λ Scorpionis.*
	31	14,0	17	32	49,0	34	19,0	48,65	4	0,75	52 S	*κ Scorpionis.*
19	51	17,0	9	52	33,0	53	45,2	37,82	1	0,73	- - -	☉ 1 L.
	53	27,0	9	54	43,0	55	55,0					☉ 2 L.
20	-	-	9	56	17,0	57	29,7	22,54	1	1,72	- - -	☉ 1 L.
	57	12,5	9	58	27,8	59	40,7					☉ 2 L.
	22	58,5	17	24	11,0	25	39,8	11,04	2	0,53	50½ S	*λ Scorpionis.*
	31	15,2	17	32	50,4	34	21,0	50,07	2	0,76	52 S	*κ Scorpionis.*
	-	-	17	37	29,5	38	39,0	29,60	2	0,92	84 S	*β Ophiuchi.*
	32	14,8	18	33	48,0	35	18,0	48,08	3	0,69	25½ N	*α Lyræ.*
	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.											
										+		
21	58	44,5	10	0	0,3	1	12,4	5,80	1	0,26	- - -	☉ 1 L.
	0	55,0	10	2	10,0	3	23,0					☉ 2 L.
	1	39,0	17	2	55,0	4	8,0	54,82	. .	. . .	28½ S	*η Ophiuchi.*
	9	13,4	17	10	35,0	11	53,0	34,95	4	0,95	12½ N	*δ Herculis.*
	19	48,5	17	21	21,0	22	49,0	20,84	7	0,78	50½ S	*υ Scorpionis.*
	25	30,0	17	27	11,0	28	48,0	10,96	. .	. . .	56 S	*θ Scorpionis.*
	31	16,0	17	32	51,0	34	22,0	50,99	1	0,80	52 S	*κ Scorpionis.*
	40	32,0	17	41	46,0	42	57,0	45,80	. .	. . .	10½ S	*γ Ophiuchi.*
	-	-	18	33	48,7	35	18,7	48,82	1	0,7	25½ N	*α Lyræ.*
22	2	28,4	10	3	43,5	4	56,0	48,74	1	1,44	- - -	☉ 1 L.
	4	37,2	10	5	55,0	7	5,0					☉ 2 L.
	1	39,5	17	2	55,8	4	8,8	55,77	1	0,7	28½ S	*η Ophiuchi.*
	9	14,0	17	10	35,4	11	53,4	35,40	1	0,47	12½ N	*δ Herculis.*
	19	49,0	17	21	21,7	22	49,8	21,52	1	0,67	50½ S	*υ Scorpionis.*
	22	40,5	17	24	13,0	25	41,0	12,84	2	0,78	50½ S	*λ Scorpionis.*
	-	-	17	27	11,8	28	48,6	12,0	1	0,7	56 S	*θ Scorpionis.*
	31	17,0	17	32	51,8	34	22,5	51,76	1	0,77	52 S	*κ Scorpionis.*
	40	32,7	17	41	47,0	42	57,6	46,80	1	0,77	10½ S	*γ Ophiuchi.*
23	6	10,4	10	7	26,0	8	38,0	30,36	1	0,02	- - -	☉ 1 L.
	8	20,0	10	9	35,0	10	48,0					☉ 2 L.
	1	40,2	17	2	56,3	4	9,7	56,42	1	0,7	28½ S	*η Ophiuchi.*
	9	14,8	17	10	36,0	11	54,0	36,05	1	0,67	12½ N	*δ Herculis.*

In the YEAR M.DCCCXV.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.		*Names or Characters* of the STARS AND PLANETS.
AUGUST 23	22	42,0	17	24	14,0	-	-	14,25	3	+1,08	50¼	S	λ *Scorpionis.*
	13	35,0	18	15	4,0	16	30,0	3,96	..	...	47¾	S	ε *Sagittarii.*
	18	22,0	18	19	44,2	21	2,0	43,95	..	...	38½	S	λ *Sagittarii.*
	45	36,0	18	46	58,0	46	18,0	58,36	2	1,0	59½	S	σ *Sagittarii.*
24	9	52,6	10	11	8,0	12	20,0	12,73	1	1,17	-	- -	☉ 1 L.
	12	2,0	10	13	17,2	14	30,0						☉ 2 L.
	1	41,0	17	2	57,0	4	10,3	57,12	1	0,7	28¾	S	η *Ophiuchi.*
	9	15,3	17	10	36,8	11	51,6	36,75	1	0,63	12½	N	δ *Herculis.*
	19	51,0	17	21	23,4	22	51,5	23,29	2	0,9	50½	S	ν *Scorpionis.*
	-	-	17	24	14,8	25	43,0	14,82	2	0,95	50½	S	λ *Scorpionis.*
	32	18,0	18	33	52,0	35	22,0	51,88	3	1,1	25½	N	α *Lyræ.*
25	13	34,4	10	14	48,3	16	2,0	52,12	1	−1,31	-	- -	☉ 1 L.
	15	44,0	10	17	0,0	18	11,0						☉ 2 L.
	1	42,0	17	2	58,0	4	11,2	58,10	1	0,97	28¾	S	η *Ophiuchi.*
	9	16,0	17	10	37,5	11	55,3	37,43	1	0,70	12¾	N	δ *Herculis.*
	18	51,6	17	20	46,0	22	35,0	45,84	..	...	62½	S	α *Aræ.*
	25	34,0	17	27	14,2	28	50,4	14,16	3	0,70	56	S	θ *Scorpionis.*
	31	19,2	17	32	59,4	34	24,0	53,49	3	0,60	52	S	κ *Scorpionis.*
	-	-	17	37	51,2	39	23,6	51,30	1	0,70	53½	S	ι *Scorpionis.*
	-	-	18	12	21,0	13	42,0	21,20	..	...	43½	S	δ *Sagittarii.*
	-	-	18	15	5,4	16	31,8	5,55	2	0,8	47¾	S	ε *Sagittarii.*
	32	18,5	18	33	52,6	35	22,8	52,50	1	0,63	25½	N	α *Lyræ.*
	45	37,6	18	46	59,3	-	-	59,35	1	0,56	59¼	S	σ *Sagittarii.*
26	17	15,5	10	18	30,0	19	43,2	35,09	..	...	-	- -	☉ 1 L.
	19	25,0	10	20	40,0	21	52,0						☉ 2 L.
	-	-	17	2	58,5	4	12,0	58,55	1	+0,65	28¾	S	η *Ophiuchi.*
	9	17,0	17	10	38,0	11	56,2	38,15	1	0,80	12¾	N	δ *Herculis.*
	-	-	17	20	46,5	22	36,0	46,56	1	0,75	62½	S	α *Aræ.*
	25	34,6	17	27	15,0	28	51,0	14,86	1	0,67	56	S	θ *Scorpionis.*
	31	20,0	17	32	54,4	34	24,3	54,26	1	0,7	52	S	κ *Scorpionis.*
	36	16,0	17	37	52,0	39	24,0	52,05	1	0,6	53¼	S	ι *Scorpionis.*
	10	57,0	18	12	22,0	13	42,8	21,84	1	0,9	43½	S	δ *Sagittarii.*
	-	-	18	15	6,0	16	32,4	6,30	1	0,6	47¼	S	ε *Sagittarii.*
	18	24,5	18	19	46,0	21	4,0	45,98	3	0,7	38¼	S	λ *Sagittarii.*
	32	19,0	18	33	53,3	35	23,3	53,11	1	0,57	25¼	N	α *Lyræ.*
27	20	56,6	10	22	11,2	23	23,5	15,81	1	0,82	-	- -	☉ 1 L.
	23	5,2	10	24	20,0	25	32,5						☉ 2 L.
	9	18,0	17	10	39,0	11	57,6	38,88	1	0,93	12¼	N	δ *Herculis.*
	36	16,8	17	37	53,0	39	25,0	53,0	1	0,93	53½	S	ι *Scorpionis.*
	10	57,6	18	12	23,0	13	43,7	22,75	1	0,83	43½	S	δ *Sagittarii.*
	-	-	18	15	7,0	16	33,0	7,34	1	0,80	47½	S	ε *Sagittarii.*
	18	25,0	18	19	46,6	-	-	46,75	1	0,55	38½	S	λ *Sagittarii.*
	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.												
28	Cloudy.												
29	28	7,5	10	29	32,2	30	44,5	34,48	2	−0,17	-	- -	☉ 1 L.
	30	26,3	10	31	41,2	32	53,0						☉ 2 L.
	36	21,0	17	37	35,0	38	45,6	34,95	..	...	28	S	β *Ophiuchi.*
	-	-	17	41	52,3	43	4,0	52,36	..	...	10¾	S	γ *Ophiuchi.*
	-	-	17	55	33,4	57	27,0	33,50	..	...	38¼	N	γ *Draconis.*
	32	21,3	18	33	56,0	35	26,0	55,75	3	0,86	25¼	N	α *Lyræ.*
	45	40,5	18	47	2,2	48	21,3	2,41	3	0,78	39¾	S	σ *Sagittarii.*
	52	40,0	18	54	5,0	55	27,0	4,91	..	...	43¼	S	ζ *Sagittarii.*
30	Cloudy.												
31													
SEPT. 1	39	17,5	10	40	32,0	41	43,3	36,22	3	−2,04	-	- -	☉ 1 L.
	41	26,0	10	42	40,2	43	52,0						☉ 2 L.

In the YEAR M.DCCCXV.

DAY OF THE MONTH.	I. Wire. M S	MERIDIAN. H M S	III. Wire. M S	Reduction of Wires. S.	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
SEPT. 1	Wound up the Clock: Arc of Vibration 1°: 37′.							
2	42 55,5	10 44 11,0	45 21,5	14,94	1	+ 0,82	- - -	⊙ 1 L.
	45 5,0	10 46 19,0	47 31,0					⊙ 2 L.
3	46 35,0	10 47 49,0	49 0,3	58,37	1	0,73	- - -	⊙ 1 L.
	48 43,2	10 49 57,5	51 9,0					⊙ 2 L.
	32 25,5	18 34 0,0	35 30,0	59,75	5	0,94	25½ N	*α Lyræ.*
	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.							
4	50 12,5	10 51 27,0	52 38,0	37,19	1	+ 0,32	- - -	⊙ 1 L.
	52 21,5	10 53 35,0	54 47,0					⊙ 2 L.
	13 44,0	18 15 13,3	16 39,0	13,11	8	0,77	47½ S	*ε Sagittarii.*
	18 32,0	18 19 53,3	21 11,0	52,76	8	0,85	38½ S	*λ Sagittarii.*
	45 45,0	18 47 6,2	48 25,2	6,55	6	0,69	39½ S	*σ Sagittarii.*
5	53 50,0	10 55 5,0	56 16,3	8,50	1	0,21	- - -	⊙ 1 L.
	55 59,0	10 57 12,0	58 24,0					⊙ 2 L.
6	57 28,0	10 58 41,0	59 55,0	46,14	1	0,74	- - -	⊙ 1 L.
	59 35,0	10 0 50,3	2 2,0					⊙ 2 L.
7 8	Cloudy.							
9	18 21,1	19 19 34,5	20 45,0	34,58	..	...	10½ S	*δ Aquilæ.*
10	Cloudy.							
11	40 56,0	19 42 39,2	44 18,5	39,36	..	...	31½ N	*β Cygni.*
12	13 52,5	18 15 22,0	16 47,4	21,91	8	+1,07	47½ S	*ε Sagittarii.*
	18 40,0	18 20 1,5	21 20,0	1,65	8	1,01	38½ S	*λ Sagittarii.*
	32 35,0	18 34 9,0	35 39,0	8,88	9	1,02	25½ N	*α Lyræ.*
	55 30,2	18 56 53,0	58 13,0	53,23	..	...	- - -	☽ 1 L. 7h 30′ 44″,5 mean Time.
	44 0,0	19 45 14,2	46 25,0	13,94	..	...	5 S	*α Aquilæ.*
16	33 39,0	11 34 52,0	36 6,0	55,85	..	...	- - -	⊙ 1 L.
	35 46,2	11 37 2,0	38 12,2					⊙ 2 L.
17	37 17,0	11 38 30,2	39 41,3	32,95	1	1,70	- - -	⊙ 1 L.
	39 24,3	11 40 38,0	41 49,2					⊙ 2 L.
	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.							
18	40 53,0	11 42 7,0	43 17,7	10,93	1	+ 2,68	- - -	⊙ 1 L.
	43 1,2	11 44 15,2	45 26,0					⊙ 2 L.
	Wound up the Clock: Arc of Vibration 1°: 37′.							
19	44 30,8	11 45 43,0	46 54,0	47,14	1	+ 0,80	- - -	⊙ 1 L.
	46 37,0	11 47 51,2	49 2,0					⊙ 2 L.
	18 33,2	19 19 47,0	20 57,3	46,83	10	1,29	10½ S	*δ Aquilæ.*
20	48 6,0	11 49 19,6	50 30,2	23,41	1	0,57	- - -	⊙ 1 L.
	50 13,0	11 51 27,2	52 38,0					⊙ 2 L.
	46 2,0	18 47 24,3	48 43,0	24,03	16	1,10	39½ S	*σ Sagittarii.*
	53 2,0	18 54 27,0	55 49,0	26,83	22	1,0	43½ S	*ζ Sagittarii.*
	1 4,0	19 2 22,7	3 38,0	22,72	..	...	34½ S	*τ Sagittarii.*

In the YEAR M.DCCCXV.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
SEPT. 21	51	43,0	11	52	56,0	54	8,0			+		
	53	50,0	11	55	4,3	56	15,0	0,46	1	1,65	- - -	⊙ 1 L. ⊙ 2 L.
22	55	18,0	11	56	32,4	57	43,6					
	57	26,0	11	58	40,0	59	51,0	36,11	1	0,45	- - -	⊙ 1 L. ⊙ 2 L.
	46	3,6	18	47	26,7	48	48,0	26,36	2	1,0	39½ S	σ *Sagittarii.*
	53	4,0	18	54	29,0	55	54,0	28,91	2	1,0	43½ S	ζ *Sagittarii.*
23	58	55,0	12	0	9,0	1	19,6					
	1	3,0	12	2	13,3	3	28,0	11,97	1	0,26	- - -	⊙ 1 L. ⊙ 2 L.
	46	4,2	18	47	27,4	48	45,6	27,71	1	0,63	39½ S	σ *Sagittarii.*
	53	4,5	18	54	29,6	55	51,5	29,69	1	0,53	43½ S	ζ *Sagittarii.*
	44	11,0	19	45	25,0	46	37,0	25,32	11	1,2	5 S	α *Aquilæ.*
	4	12,0	20	-	-	6	36,0	25,62	..	...	14½ S	θ *Aquilæ.*
24	2	31,5	12	3	40,0	4	56,0					
	4	39,5	12	5	53,0	7	5,0	49,33	1	1,66	- - -	⊙ 1 L. ⊙ 2 L.
	1	7,5	19	2	26,0	3	42,0	26,24	4	0,9	34½ S	π *Sagittarii.*
	18	37,0	19	19	51,0	21	1,2	50,85	5	0,78	10½ S	δ *Aquilæ.*
	44	12,0	19	45	25,8	46	38,0	25,40	1	0,93	5 S	α *Aquilæ.*
	4	13,0	20	5	27,0	6	37,0	26,81	1	1,0	14½ S	θ *Aquilæ.*
	9	49,0	20	11	4,0	12	17,0	4,23	..	...	26½ S	1 α *Capricorni.*
	10	13,0	20	11	28,2	12	40,3	28,15	..	...	26½ S	2 α *Capricorni.*
	36	20,5	20	37	38,0	38	53,3	38,64	..	...	- - -	♄ *Centrum.* 5ʰ 23′ 42″,40 mean Time.
	40	57,0	20	42	25,0	43	49,0	24,97	..	...	20½ N	ε *Cygni.*
	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.											
27	13	22,2	12	14	37,0	15	47,0			+		
	15	31,0	12	16	44,0	17	55,4	40,28	2	0,85	- - -	⊙ 1 L. ⊙ 2 L.
	39	56,7	19	41	12,0	42	23,0	11,74	3	0,97	2½ S	γ *Aquilæ.*
28	16	59,0	12	18	14,0	19	24,5					
	19	8,0	12	20	22,0	21	33,2	17,89	1	1,11	- - -	⊙ 1 L. ⊙ 2 L.
	39	57,4	19	41	12,6	42	23,7	12,39	1	0,67	2½ S	γ *Aquilæ.*
	44	15,2	19	45	29,0	46	41,0	29,37	4	0,77	5 S	α *Aquilæ.*
	10	16,0	20	11	31,3	12	43,4	31,93	4	0,77	26½ S	2 α *Capricorni.*
	-	-	20	19	19,2	20	51,3	19,30	4	0,81	26½ N	γ *Cygni.*
29	20	38,0	12	21	52,0	23	3,0					
	22	46,0	12	24	0,3	25	11,0	55,91	1	1,32	- - -	⊙ 1 L. ⊙ 2 L.
	44	16,0	19	45	30,0	46	41,7	30,24	1	0,83	5 S	α *Aquilæ.*
	35	57,0	20	37	16,0	38	30,0	15,25	..	...	- - -	♄ *Centrum.* 8ʰ 9′ 34″,12 mean Time.
	41	2,0	20	42	30,0	43	54,0	29,92	5	1,0	20½ N	ε *Cygni.*
30	24	16,0	12	25	30,0	26	41,0					
	26	24,0	12	27	37,3	28	49,5	33,83	..	...	- - -	⊙ 1 L. ⊙ 2 L.
OCT. 1	27	54,0	12	29	8,5	30	19,0					
	30	2,5	12	31	16,4	32	27,0	12,20	1	1,07	- - -	⊙ 1 L. ⊙ 2 L.
	Wound up the Clock: Arc of Vibration 1°: 37′.											
	35	50,8	20	37	10,0	38	24,0	9,57	..	...	- - -	♄ *Centrum.* 7ʰ 55′ 34″,27 mean Time.
	-	-	20	42	32,4	43	56,4	32,54	2	+1,2	20½ N	ε *Cygni.*
	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.											
2	31	33,0	12	32	47,0	33	58,0			+		
	33	42,0	12	34	56,0	36	7,0	51,30	1	1,50	- - -	⊙ 1 L. ⊙ 2 L.
	40	2,5	19	41	17,0	42	28,0	17,33	4	1,15	2½ S	γ *Aquilæ.*
	10	23,0	20	11	38,0	12	50,2	38,09	4	1,7	26½ S	2 α *Capricorni.*

In the YEAR M.DCCCXV.

DAY of the MONTH.		I. Wire. M	S.	Meridian. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock. +	Zenith Distance.	Names or Characters of the STARS and PLANETS.
Oct.	2	35	49,0	20	37	7,6	38	22,0	7,31	..	...	- - -	♄ *Centrum.* 7h 51′ 34″,85 mean Time.
		41	6,0	20	42	34,0	43	58,0	33,93	1	1,6	20½ N	ε *Cygni.*
	3	35	12,5	12	36	26,3	37	37,0	29,91	1	0,81	- - -	☉ 1 L.
		37	21,0	12	38	35,0	39	46,0					☉ 2 L.
		18	47,4	19	20	1,5	21	11,5	1,91	1	1,33	10½ S	δ *Aquilæ.*
		4	23,0	20	5	37,0	6	48,0	36,83	9	1,04	14½ S	β *Aquilæ.*
		10	24,2	20	11	39,4	12	51,4	39,39	1	1,27	26½ S	2 α *Capricorni.*
		35	47,0	20	37	5,0	38	20,0	5,03	..	...	- - -	♄ *Centrum.* 7h 47′ 35″,77 mean Time.
		41	7,8	20	42	35,4	43	59,7	33,50	1	1,77	20½ N	ε *Cygni.*
	4	38	52,0	12	40	6,0	41	16,6	10,06	1	1,95	- - -	☾ 1 L.
		41	0,0	12	42	14,2	43	25,3					☉ 2 L.
		10	25,3	20	11	40,5	12	52,4	40,49	1	1,07	26½ S	2 α *Capricorni.*
	5	42	31,7	12	43	45,0	44	57,0	49,46	1	0,90	- - -	☉ 1 L.
		44	40,0	12	45	54,0	47	5,5					☉ 2 L.
	6	46	12,0	12	47	26,0	48	37,0	29,80	1	1,52	- - -	☉ 1 L.
		48	21,0	12	49	35,0	50	46,0					☉ 2 L.
	7	49	52,0	12	51	7,0	52	17,0	10,83	1	1,83	- - -	☉ 1 L.
		52	1,4	12	53	15,0	54	26,0					☉ 2 L.
		44	27,0	19	45	42,2	46	53,0	42,26	6	1,55	5 S	α *Aquilæ.*
		37	21,6	20	39	4,0	40	43,4	4,11	2	1,14	31½ N	α *Cygni.*
		41	13,0	20	42	40,3	44	5,0	40,55	2	1,18	20½ N	ε *Cygni.*
		9	50,0	21	-	-	12	51,0	22,01	2	1,9	21½ N	τ *Cygni.*
		15	31,2	21	18	7,0	20	36,6	7,09	2	1,3	48½ N	α *Cephei.*
	8	44	28,5	19	45	43,5	46	54,5	43,53	1	1,43	5 S	α *Aquilæ.*
		10	7,0	20	11	21,0	12	34,0	21,32	4	1,49	26½ S	1 α *Capricorni.*
		10	30,5	20	11	45,0	12	57,3	45,19	4	1,2	26½ S	2 α *Capricorni.*
		37	22,6	20	39	5,5	40	45,0	5,75	1	1,37	31½ N	α *Cygni.*
		41	14,3	20	42	42,0	14	6,2	42,11	1	1,4	20½ N	ε *Cygni.*
		15	32,7	21	18	8,4	20	38,0	8,52	1	1,43	48½ N	α *Cephei.*
		A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.											
	9	40	12,0	19	41	27,0	42	39,0	27,23	7	1,45	2½ S	γ *Aquilæ.*
		44	30,0	19	45	45,0	46	56,0	45,26	1	1,5	5 S	α *Aquilæ.*
		10	31,4	20	11	46,3	12	58,5	46,42	1	1,2	26½ S	2 α *Capricorni.*
		37	24,0	20	39	7,0	40	46,5	7,21	1	1,47	31½ N	α *Cygni.*
		41	15,4	20	42	43,3	44	8,0	43,43	1	1,4	20½ N	ε *Cygni.*
		9	52,2	21	11	24,0	12	53,0	24,28	2	1,05	21½ N	τ *Cygni.*
		15	34,0	21	18	10,0	20	39,4	9,99	1	1,43	48½ N	α *Cephei.*
	10	0	55,0	13	2	10,0	3	21,0	14,30	3	1,12	- - -	☉ 1 L.
		3	5,0	13	4	19,0	5	31,0					☉ 2 L.
		40	13,6	19	41	28,7	42	40,4	29,05	1	1,57	2½ S	γ *Aquilæ.*
		44	31,8	19	45	46,4	46	57,7	46,83	1	1,63	5 S	α *Aquilæ.*
		10	10,2	20	11	24,5	12	37,0	24,84	2	1,61	26½ S	1 α *Capricorni.*
		10	32,5	20	11	48,0	13	0,0	47,92	1	1,50	26½ S	2 α *Capricorni.*
		37	25,4	20	39	8,5	40	48,0	8,71	1	1,47	31½ N	α *Cygni.*
		41	17,0	20	42	45,0	14	9,7	45,10	1	1,63	20½ N	ε *Cygni.*
		9	54,0	21	11	25,6	12	54,7	25,95	1	1,7	24½ N	τ *Cygni.*
		15	35,8	21	18	11,5	20	41,0	11,59	1	1,63	48½ N	α *Cephei.*
	11	23	49,2	20	25	10,0	26	28,8	9,94	..	...	- - -	☽ 1 L. 7h 4′ 3″,64 mean Time.
		37	27,0	20	39	10,0	40	49,7	10,26	1	1,6	31½ N	α *Cygni.*
		41	18,8	20	42	46,6	44	11,0	46,68	1	1,57	20½ N	ε *Cygni.*
		9	55,5	21	11	27,0	12	56,3	27,40	1	1,50	24½ N	τ *Cygni.*
	12	44	35,0	19	45	49,4	47	0,7	49,85	2	1,53	5 S	α *Aquilæ.*
		15	21,0	21	16	41,5	17	58,0	41,29	..	...	- - -	☽ 1 L. 7h 51′ 34″,81 mean Time.

In the YEAR M.DCCCXV.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names* or *Characters* of the STARS AND PLANETS.
										+		
OCT. 13	12	5,5	13	13	20,0	14	29,8	23,76	3	1,81	- - -	⊙ 1 L.
	14	14,5	13	15	27,5	16	39,0					⊙ 2 L.
	44	36,8	19	45	50,6	47	2,2	51,08	1	1,5	5 S	*α Aquilæ.*
	35	54,0	20	57	10,0	38	25,0	10,07	..	...	- - -	♄ *Centrum.* 7ʰ 8′ 5″,86 mean Time.
	41	22,0	20	42	50,0	44	14,2	49,98	2	1,63	20½ N	*ε Cygni.*
14	44	38,3	19	-	-	47	4,0	53,87	1	1,65	5 S	*α Aquilæ.*
	-	-	20	11	31,2	12	42,3	31,09	4	1,5	26½ S	1 *α Capricorni.*
	10	39,0	20	11	54,0	13	7,0	54,29	4	1,62	26½ S	2 *α Capricorni.*
	18	7,4	20	19	43,3	21	14,3	42,79	10	1,43	26½ N	*γ Cygni.*
	37	32,0	20	39	15,0	40	54,6	15,24	3	1,66	31½ N	*α Cygni.*
	41	23,3	20	42	51,3	44	16,0	51,06	1	1,47	20½ N	*ε Cygni.*
	10	0,0	21	11	32,2	-	-	32,37	3	1,62	24½ N	*τ Cygni.*
	15	42,0	21	18	17,4	20	47,2	17,37	4	1,52	48½ N	*α Cephei.*
15	41	25,0	20	42	53,0	44	17,3	53,05	1	1,57	20½ N	*ε Cygni.*
	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.											
16	23	15,5	13	24	30,6	25	42,0	35,74	3	1,19	- - -	⊙ 1 L.
	25	26,0	13	26	41,0	27	53,0					⊙ 2 L.
	Wound up the Clock: Arc of Vibration 1°: 38′.											
										+		
	18	11,0	20	19	46,2	21	17,8	46,40	2	1,66	26½ N	*γ Cygni.*
	37	35,0	20	39	18,7	40	57,8	18,64	2	1,65	31½ N	*α Cygni.*
	41	27,0	20	42	54,8	44	19,0	54,83	1	1,83	20½ N	*ε Cygni.*
	10	4,0	21	11	36,0	13	5,0	36,05	2	1,95	24½ N	*τ Cygni.*
	15	45,0	21	18	20,3	20	50,3	20,62	2	1,5	48½ N	*α Cephei.*
17	27	2,0	13	28	16,2	29	29,6				- - -	⊙ 1 L.
	29	12,0	13	30	27,0	31	39,0	21,80	1	2,24		⊙ 2 L.
	10	44,0	20	12	0,0	13	12,2	59,84	3	1,8	26½ S	2 *α Capricorni.*
	18	12,5	20	19	48,0	21	19,6	48,12	1	1,7	26½ N	*γ Cygni.*
	37	36,7	20	39	20,3	40	59,3	20,08	1	1,6	31½ N	*α Cygni.*
	41	28,6	20	42	56,3	44	20,6	56,38	1	1,57	20½ N	*ε Cygni.*
	15	47,0	21	18	22,4	20	52,0	22,37	1	1,93	48½ N	*α Cephei.*
18	30	47,0	13	32	2,3	33	14,0				- - -	⊙ 1 L.
	32	58,0	13	34	13,0	35	25,0	7,61	1	1,31		⊙ 2 L.
	10	45,7	20	12	1,8	13	14,0	1,54	1	1,73	26½ S	2 *α Capricorni.*
	18	14,0	20	19	49,4	21	21,0	49,52	1	1,43	26½ N	*γ Cygni.*
	37	38,3	20	39	22,0	41	1,0	21,91	1	1,67	31½ N	*α Cygni.*
	41	30,0	20	42	58,0	44	22,2	57,98	1	1,57	20½ N	*ε Cygni.*
	15	49,0	21	18	24,3	20	54,0	24,32	1	1,97	48½ N	*α Cephei.*
	31	53,3	1	33	7,0	34	14,5	7,01	..	...	6½ S	♂ *Centrum.* 11ʰ 43′ 36″,80 mean Time.
	59	2,5	2	0	18,0	1	30,2	- -	..	...	- - -	☽ 1 L.
	1	9,0	2	2	24,3	3	36,4	24,28	..	...	5½ S	☽ 2 L. 12ʰ 12′ 30″,86 mean Time.
19	34	34,2	13	35	49,0	37	1,4				- - -	⊙ 1 L.
	36	45,0	13	38	0,0	39	11,2	54,26	..	...		⊙ 2 L.
	18	15,7	20	19	51,0	21	22,5	51,15	1	1,6	26½ N	*γ Cygni.*
	37	40,0	20	39	23,5	41	2,8	23,5	1	1,66	31½ N	*α Cygni.*
	41	31,7	20	42	59,8	44	23,8	59,70	1	1,7	20½ N	*ε Cygni.*
	10	9,0	21	11	41,2	13	10,0	41,10	3	1,69	24½ N	*τ Cygni.*
20	Cloudy.											
21	37	44,4	20	39	28,0	41	7,0	27,94	2	2,18	31½ N	*α Cygni.*
	41	36,0	20	43	4,0	44	28,0	3,93	2	2,12	20½ N	*ε Cygni.*
	10	13,0	21	11	45,0	13	13,8	45,18	2	1,93	24½ N	*φ Cygni.*
	15	54,4	21	18	30,0	20	59,4	30,09	3	1,83	48½ N	*α Cephei.*
	24	55,0	21	26	9,0	27	19,5	8,90	..	...	19½ S	β *Aquarii.*
	32	53,2	21	34	10,0	35	24,3	9,94	..	...	30½ S	*γ Capricorni.*

In the YEAR M.DCCCXV.

DAY OF THE MONTH.	I. Wire. M S	MERIDIAN. H M S	III. Wire. M S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
Oct. 21	38 12,2	21 39 26,3	40 38,0	26,94	..	...	4½ S	ε *Pegasi.*
	59 2,5	22 0 52,0	2 37,2	52,08	..	...	61 S	α *Gruis.*
22	45 58,8	13 47 13,5	48 25,0	19,15	..	...	- - -	☉ 1 L.
	48 10,0	13 49 25,0	50 37,0					☉ 2 L.
23	- -	13 51 3,0	52 15,0	8,59	1	+1,64	- - -	☉ 1 L.
	51 59,0	13 - -	- -					☉ 2 L.
24	- -	13 54 53,0	- -	- -	..	...	- - -	☉ 1 L.
	55 50,0	13 - -	- -					☉ 2 L.
25 26	Cloudy.							
27	38 24,5	21 39 39,0	40 50,0	39,36	6	+2,05	4½ S	ε *Pegasi.*
28	9 6,0	14 10 22,2	11 34,5	28,07	..	...	- - -	☉ 1 L.
	11 19,0	14 12 34,0	13 46,2					☉ 2 L.
	37 23,3	20 38 41,2	39 55,0	40,93	..	...	33 S	♄ *Centrum.* 6ʰ 10′ 9″,52 mean Time.
	16 9,0	21 18 46,0	21 15,5	45,77	7	2,24	48½ N	α *Cephei.*
	25 10,0	21 26 24,0	27 35,0	23,90	7	2,16	19½ S	β *Aquarii.*
	33 7,8	21 34 25,0	35 39,0	24,76	7	2,11	30½ S	γ *Capricorni.*
	59 17,0	22 1 7,0	2 52,0	6,68	7	2,11	61 S	α *Gruis.*
29	12 59,0	14 14 15,4	15 27,5	20,65	1	0,42	- - -	☉ 1 L.
	15 12,5	14 - -	17 39,0					☉ 2 L.
	37 32,0	20 38 50,0	40 3,4	49,94	..	...	32½ S	♄ *Centrum.* 6ʰ 6′ 22″,17 mean Time.
	41 52,0	20 43 21,0	44 44,8	20,63	1	1,93	20¾ N	ε *Cygni.*
	10 30,0	21 12 2,2	13 30,0	2,08	8	2,1	24½ N	τ *Cygni.*
	16 11,0	21 18 47,8	21 17,4	47,64	1	1,9	48½ N	α *Cephei.*
	25 11,7	21 26 26,0	27 36,8	25,90	1	1,83	19½ S	β *Aquarii.*
	The Meridian Wire broke.—The following Observations are taken by the two extreme Wires.							
30	37 41,7	20 - -	40 14,5	59,56	..	+ ...	32½ S	♄ *Centrum.* 6ʰ 2′ 39″,27 mean Time.
	41 54,0	20 - -	44 47,0	21,71	1	2,1	20½ N	ε *Cygni.*
	59 21,0	22 - -	2 55,8	10,72	2	1,82	61 S	α *Gruis.*
31	20 49,7	14 - -	23 18,0	11,86	2	2,25	- - -	☉ 1 L.
	23 2,0	14 - -	25 31,4					☉ 2 L.
	37 52,0	20 - -	44 24,9	9,97	..	...	32½ S	♄ *Centrum.* 5ʰ 58′ 45″,24 mean Time.
	41 56,0	20 - -	44 49,0	23,91	1	2,0	20½ N	ε *Cygni.*
Nov. 1	Wound up the Clock: Arc of Vibration 1°: 38′.							
4	A. M. Fixed a new Wire, the fibres of China Grass thread: these appear to be finer than the former, and not much thicker than Cobweb.—Adjusted the Instrument again nearly.							
	36 40,5	14 37 55,2	39 9,0	2,14	..	...	- - -	☉ 1 L.
	38 54,0	14 - -	41 23,5					☉ 2 L.
6	44 39,2	14 45 54,0	47 8,0	- -	..	...	- - -	☉ 1 L.
	46 54,0	*14 48 9,3	*49 23,4					☉ 2 L.
	Western end of the Axis 0″,27 too high.							
	33 26,0	21 - -	35 55,8	40,65	1	+ 1,65	30½ S	γ *Capricorni.*
	15 46,3	*22 16 57,6	18 10,4	58,22	..	...	15½ S	γ *Aquarii.*

In the YEAR M.DCCCXV.

DAY of the MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
Nov. 7	48	40,0	14	49	55,2	51	9,2	2,36	1	+ 1,51	- - -	☉ 1 L.
	50	55,0	*14	52	10,0	-	-					☉ 2 L.
	Western end of the Axis 0″,4 too high.											
	40	28,0	*21	41	43,4	42	57,0	43,01	..	...	30½ S	♑ *Capricorni.*
	48	28,6	22	49	44,0	50	57,6	43,83	..	...	30 S	♒ *Aquarii.*
8	52	41,2	14	53	56,2	55	11,0	4,0	1	+1,4	- - -	☉ 1 L.
	54	56,5	*14	56	12,5	*57	26,2					☉ 2 L.
	Western end of the Axis 0″,20 too high,—lowered it.											
	25	32,2	*21	26	45,5	27	56,0	- -	..	+ ...	19½ S	β *Aquarii.*
	53	30,2	*21	54	46,0	36	0,6	- -	..	...	30¾ S	γ *Capricorni.*
	40	29,5	*21	41	44,5	42	58,5	- -	..	...	30½ S	δ *Capricorni.*
	-	-	22	17	2,0	18	15,2	2,25	..	...	15¼ S	γ *Aquarii.*
9	25	34,0	21	26	47,2	27	58,0	47,93	1	1,9	19¼ S	β *Aquarii.*
	40	31,5	21	41	47,0	43	1,0	47,09	1	2,25	30½ S	δ *Capricorni.*
	46	31,5	21	47	48,8	49	5,4	48,78	..	...	31½ S	☽ 1 L. 6ʰ 31′ 32″,32 mean Time.
10	Cloudy.											
11	21	41,2	23	22	55,0	24	9,2	55,25	..	...	23¼ S	☽ 1 L. 7ʰ 58′ 28″,38 mean Time.
13	13	5,2	15	14	21,0	15	36,2	- -	..	...	- - -	☉ 1 L.
	15	21,2	*15	16	37,0	*17	52,2					☉ 2 L.
	The Axis appears to be level, according to the foregoing Observations.											
	38	42,4	21	34	58,0	36	12,6	57,81	4	+ 2,52	30½ S	γ *Capricorni.*
	40	42,2	21	41	57,5	43	11,8	57,53	5	2,6	30½ S	δ *Capricorni.*
	59	49,0	22	1	38,0	3	26,0	37,93	..	...	61 S	α *Gruis.*
	16	2,5	22	17	14,6	18	26,0	14,69	..	...	15¼ S	γ *Aquarii.*
	34	55,6	22	36	43,0	38	29,0	43,06	..	...	61 S	β *Gruis.*
	51	9,5	22	52	33,0	-	-	33,30	..	...	43¼ S	*Fomalhaut.*
	Examined the Line of Collimation and Meridian adjustment,—found the former right, the latter a very little out.—Adjusted it.											
14	17	12,0	15	18	28,2	19	43,3	36,54	1	+ 2,5	- - -	☉ 1 L.
	19	29,0	15	20	44,0	20	0,0					☉ 2 L.
	40	44,3	21	41	59,8	43	14,3	59,83	..	...	30½ S	δ *Capricorni.*
	16	4,5	22	17	16,5	18	28,5	16,54	..	...	15¼ S	γ *Aquarii.*
	34	58,0	22	36	45,3	38	31,6	45,09	..	...	61 S	β *Gruis.*
	51	11,7	22	52	35,2	53	58,0	34,90	..	...	43¼ S	*Fomalhaut.*
15	21	20,0	15	22	36,2	23	51,5	44,87	1	1,96	- - -	☉ 1 L.
	23	37,0	15	24	53,0	26	8,2					☉ 2 L.
	40	46,0	21	42	1,6	43	16,5	1,76	1	1,9	30½ S	δ *Capricorni.*
	16	7,0	22	17	18,8	18	30,3	18,17	1	2,2	15¼ S	γ *Aquarii.*
	35	0,5	22	36	47,4	38	33,4	47,15	1	2,1	61 S	β *Gruis.*
	51	14,0	22	52	37,6	54	0,0	37,58	1	2,23	43¼ S	*Fomalhaut.*
	58	42,0	23	0	2,7	1	22,8	2,85	..	...	14½ N	β *Pegasi.*
16	Cloudy.											
	Wound up the Clock: Arc of Vibration 1°: 38′.											

In the YEAR M.DCCCXV.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock. +	Zenith Distance.	Names or Characters of the STARS AND PLANETS.
Nov. 17	29	38,2	15	30	55,0	32	10,2	2,82	..	...	- - -	⊙ 1 L.
	31	55,3	15	33	12,0	34	27,5					⊙ 2 L.
	16	11,2	22	17	23,0	18	34,0	22,80	2	2,01	15¾ S	γ *Aquarii.*
	35	5,2	22	36	52,2	38	38,0	52,03	2	2,35	61 S	β *Gruis.*
	51	18,0	22	52	42,0	54	5,0	41,81	2	2,23	43¾ S	*Fomalhaut.*
	58	46,0	23	0	7,0	1	27,0	6,83	2	2,08	14½ N	β *Pegasi.*
18	33	48,6	15	35	5,0	36	21,0	13,92	1	2,60	- - -	⊙ 1 L.
	36	5,3	15	37	22,0	38	38,2					⊙ 2 L.
	16	14,0	22	17	26,0	18	37,0	25,46	1	2,93	15¼ S	γ *Aquarii.*
19	Transit Clock taken down and cleaned: Put up again, and set nearly to the same time as before.											
	51	17,0	22	52	41,0	54	3,0	40,79	..	...	43¾ S	*Fomalhaut.*
	58	45,0	23	0	5,0	1	25,0	5,30	..	...	14¼ N	β *Pegasi.*
20	41	48,0	15	43	4,3	44	20,5	13,15	..	...	- - -	⊙ 1 L.
	44	5,0	15	45	22,2	46	38,0					⊙ 2 L.
	34	40,0	22	36	27,2	38	13,0	27,04	1	−25,98	61 S	β *Gruis.*
	51	53,0	22	52	17,0	53	39,5	16,91	1	23,83	44¾ S	*Fomalhaut.*
	58	20,5	22	59	41,6	0	1,3	41,55	1	23,87	14¼ N	β *Pegasi.*
	Shortened the Pendulum 30 Divisions.											
	1	25,0	0	2	46,2	4	7,0	46,40	..	...	15 N	α *Andromedæ.*
21	44	55,5	15	46	12,3	47	28,0	20,89	1	−3,56	- - -	⊙ 1 L.
	47	13,2	15	48	30,0	49	46,0					⊙ 2 L.
	1	27,2	0	2	48,8	4	9,0	48,75	1	+2,23	15 N	α *Andromedæ.*
	6	27,4	0	7	40,0	8	54,3	40,32	1	2,23	1¼ N	γ *Pegasi.*
	Lengthened the Pendulum 3 Divisions.											
	- -		0	33	33,2	35	39,0	33,25	..	...	42¾ N	α *Cassiopeiæ.*
	36	29,0	0	37	45,3	39	0,0	45,14	..	...	32 S	β *Ceti.*
22	48	37,0	15	49	53,4	51	10,0	2,34	..	...	- - -	⊙ 1 L.
	50	55,0	15	52	12,0	53	28,0					⊙ 2 L.
29	18	21,7	16	19	39,2	20	55,6	48,17	..	...	- - -	⊙ 1 L.
	20	40,0	16	21	58,3	23	15,2					⊙ 2 L.
	56	57,2	22	58	17,3	59	37,2	17,55	..	...	14¼ N	β *Pegasi.*
	0	58,0	0	2	19,7	3	40,2	19,70	..	...	15 N	α *Andromedæ.*
	5	58,3	0	7	12,0	0	25,2	11,81	..	...	1¼ N	γ *Pegasi.*
	18	56,7	0	20	35,0	22	13,4	35,32	..	...	56¾ S	α *Phenicis.*
	31	27,3	0	33	34,2	35	40,0	34,11	8	+0,12	42¼ N	α *Cassiopeiæ.*
	36	30,3	0	37	46,0	39	2,0	46,36	8	0,17	32 S	β *Ceti.*
	46	45,3	0	49	8,0	51	29,2	8,16	8	0,16	46¼ N	γ *Cassiopeiæ.*
30	22	39,2	16	23	57,2	25	14,0	6,42	1	0,15	- - -	⊙ 1 L.
	24	59,3	16	26	16,0	27	33,5					⊙ 2 L.
	31	27,3	0	33	34,0	35	40,0	34,01	1	−0,07	42¾ N	α *Cassiopeiæ.*
	36	30,3	0	37	46,4	39	2,0	46,56	1	+0,13	32 S	β *Ceti.*
	46	45,8	0	49	8,2	51	29,6	7,92	1	0,37	46¾ N	γ *Cassiopeiæ.*
	9	47,0	1	-	-	12	11,5	59,54	..	...	6 S	δ *Centrum.* 8h 33′ 5″,07 mean Time.
Dec. 1	Cloudy at Noon.											
	0	58,0	0	2	20,0	3	40,0	19,90	2	0,02	15 N	α *Andromedæ.*
	5	58,0	0	7	12,5	-	-	12,67	2	0,05	1¼ N	γ *Pegasi.*
2	Cloudy at Noon.											
	Wound up the Clock: Arc of Vibration 1°: 37′.											

In the YEAR M.DCCCXV.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	Names or Characters of the STARS AND PLANETS.
DEC. 2	56	57,0	22	58	18,0	59	38,0	17,94	1	+ 0,0	14½ N	β *Pegasi.*
	0	58,2	0	2	20,0	3	40,5	20,07	1	0,23	15 N	α *Andromedæ.*
	5	58,0	0	7	12,3	8	25,3	12,06	1	—0,10	1¼ N	γ *Pegasi.*
	18	57,3	0	20	36,0	22	14,0	35,88	3	+0,24	56½ S	α *Phœnicis.*
	36	38,8	0	37	47,0	39	2,9	47,16	2	0,18	32 S	β *Ceti.*
	46	45,6	0	49	8,0	51	29,8	7,86	2	—0,03	46½ N	γ *Cassiopeiæ.*
	10	54,2	1	-	-	13	18,0	6,98	..	. . .	6 S	δ *Centrum.* 8ʰ 26′ 20″,44 mean Time.
	32	2,0	1	34	18,3	36	33,4	18,0	..	. . .	71¼ S	*Achernar.*
3	Cloudy at Noon.											
	56	57,0	22	58	18,0	59	38,0	17,94	1	0,0	14½ N	β *Pegasi.*
	0	58,2	0	2	20,0	3	40,0	19,95	1	0,17	15 N	α *Andromedæ.*
	5	58,0	0	7	12,5	8	26,0	12,63	1	0,30	1¼ N	γ *Pegasi.*
	18	57,0	0	20	36,0	22	14,0	35,85	1	0,10	56½ S	α *Phœnicis.*
	31	28,0	0	33	35,0	35	41,0	34,93	1	0,53	42½ N	α *Cassiopeiæ.*
	46	46,0	0	-	-	51	30,0	8,64	1	0,30	46½ N	γ *Cassiopeiæ.*
	1	27,0	1	2	51,2	4	21,0	54,42	..	. . .	21½ N	β *Andromedæ.*
	11	28,4	1	12	44,4	14	5,5	44,4	..	. . .	6 S	δ *Centrum.* 8ʰ 23′ 1″,62 mean Time.
	32	2,0	1	34	18,0	36	33,4	17,86	1	—0,10	71¼ S	*Achernar.*
4	39	58,0	16	41	15,3	42	32,5	25,97	..	. . .	- - -	☉ 1 L.
	42	18,2	16	Cloudy.		Cloudy.						☉ 2 L.
	-	-	0	7	12,4	8	26,0	12,58	1	0,05	1¼ N	γ *Pegasi.*
	-	-	0	20	36,0	22	14,0	36,32	1	0,0	56½ S	α *Phœnicis.*
	46	46,2	0	49	8,7	51	30,4	8,82	1	+0,3	46½ N	γ *Cassiopeiæ.*
	1	27,0	1	-	-	4	21,0	54,64	1	0,0	21½ N	β *Andromedæ.*
5	44	18,4	16	45	37,2	46	54,0	46,89	1	—0,10	- - -	☉ 1 L.
	46	39,0	16	47	57,0	49	15,0					☉ 2 L.
	0	59,0	0	2	20,0	-	-	20,40	2	+0,2	15 N	α *Andromedæ.*
	5	59,2	0	7	13,0	8	26,4	12,92	1	0,5	1¼ N	γ *Pegasi.*
	31	28,0	0	33	35,2	35	41,4	35,04	2	0,1	42½ N	α *Cassiopeiæ.*
	36	32,0	0	37	48,0	39	3,0	47,98	2	0,5	32 S	β *Ceti.*
	46	46,0	0	49	9,0	51	30,3	8,90	1	0,0	46½ N	γ *Cassiopeiæ.*
	12	55,6	1	-	-	15	19,0	7,28	..	. . .	6 S	δ *Centrum.* 8ʰ 16′ 31″,73 mean Time.
6	48	40,0	16	49	59,0	51	16,2	8,87	1	0,28	- - -	☉ 1 L.
	51	1,5	16	52	20,0	53	37,4					☉ 2 L.
	0	59,5	0	2	20,5	3	42,0	20,68	1	0,5	15 N	α *Andromedæ.*
	5	59,0	0	7	13,0	8	27,0	13,38	1	0,13	1¼ N	γ *Pegasi.*
	18	58,2	0	20	37,0	22	15,0	36,85	2	0,5	56½ S	α *Phœnicis.*
	-	-	0	33	35,5	35	42,0	35,67	1	0,45	42½ N	α *Cassiopeiæ.*
	-	-	0	49	9,3	51	31,0	9,47	1	0,5	46½ N	γ *Cassiopeiæ.*
	1	28,0	1	2	56,0	4	22,0	55,82	2	0,5	21½ N	β *Andromedæ.*
	13	39,0	1	14	51,0	-	-	51,86	..	. . .	6 S	δ *Centrum.* 8ʰ 13′ 19″,70 mean Time.
	32	3,8	1	34	19,2	36	35,0	19,49	3	0,46	71¼ S	*Achernar.*
7	53	3,4	16	54	21,0	55	39,0	31,64	1	1,47	- - -	☉ 1 L.
	55	24,0	16	56	42,3	58	0,0					☉ 2 L.
	1	0,2	0	2	21,4	3	43,0	21,63	1	0,87	15 N	α *Andromedæ.*
	6	0,0	0	7	14,0	8	27,7	13,92	1	0,90	1¼ N	γ *Pegasi.*
	18	59,2	0	20	38,0	22	16,9	37,91	1	1,0	56½ S	α *Phœnicis.*
	31	30,0	0	33	36,6	35	43,0	36,73	1	1,05	42½ N	α *Cassiopeiæ.*
	36	34,0	0	37	49,6	39	4,7	49,93	2	0,89	32 S	β *Ceti.*
	46	45,0	0	49	10,2	51	31,8	9,97	1	0,85	46½ N	γ *Cassiopeiæ.*
	-	-	1	2	56,6	4	23,0	56,62	1	0,80	21½ N	β *Andromedæ.*
	14	26,0	1	15	40,5	-	-	40,50	..	. . .	6 S	δ *Centrum.* 8ʰ 10′ 12″,99 mean Time.
8	57	26,5	16	58	45,0	0	2,5	54,87	1	0,53	- - -	☉ 1 L.
	59	47,2	17	1	6,0	2	23,0					☉ 2 L.
9	1	50,5	17	3	5,5	4	26,0	16,93	1	—1,14	- - -	☉ 1 L.
	4	11,0	17	5	26,3	6	46,0					☉ 2 L.
	46	40,0	23	47	50,0	49	6,0	50,0	..	. . .	21 S	☽ 1 L. 6ʰ 34′ 45″,74 mean Time.
	1	1,0	-	-	-	3	44,0	22,85	2	+0,45	15 N	α *Andromedæ.*
	6	1,0	-	-	-	8	29,0	15,76	2	0,57	1¼ N	γ *Pegasi.*
	19	0,5	-	-	-	22	17,0	38,71	2	0,57	56½ S	α *Phœnicis.*
	46	49,0	-	-	-	51	32,5	10,71	2	0,43	46½ N	γ *Cassiopeiæ.*

In the YEAR M.DCCCXV.

DAY of the MONTH.	I. Wire. M	S	Meridian. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	Names or Characters of the STARS and PLANETS.
Dec. 9	1	30,2	1	-	-	4	24,0	57,74	2	+0,5	21¼ N	β *Andromedæ.*
	The middle Wire displaced.—Fixed new Wires, the middle Wire apparently too thick.											
10	Cloudy.											
12	-	-	17	18	45,2	20	4,0	- -	..	- - -	- - -	☉ 2 L.
	1	4,3	0	2	25,4	3	48,0	25,1	..	- - -	15 N	α *Andromedæ.*
	6	4,0	0	7	18,3	8	33,5	17,97	..	- - -	1¼ N	γ *Pegasi.*
	19	4,0	0	20	42,0	22	22,5	41,85	..	- - -	56¼ S	α *Phœnicis.*
	31	34,0	0	33	40,0	35	49,7	40.04	..	- - -	42½ N	α *Cassiopeiæ.*
	36	37,0	0	37	52,8	39	9,8	52,80	..	- - -	32 S	β *Ceti.*
	46	52,6	0	49	13,4	51	39,0	13,68	..	- - -	46¼ N	γ *Cassiopeiæ.*
	Immersion of ξ Ceti, behind the ☽'s dark Limb. Time by Clock (S.) 0h 57′ 11″. Apparent Time 7h 38′ 12″,48. Immersion of Jupiter's *first* Satellite. Time by Clock (S.) 9h 39′. Mean Time 16h 12′ 24″,57. Planet low: flying Clouds: ☿ near ☉: Observation otherwise good											
	Fixed new and finer Wires to the Transit Telescope.											
13	1	6,0	0	2	26,0	3	48,2	25,87	..	- - -	15 N	α *Andromedæ.*
	6	6,0	0	7	18,8	8	33,8	18,8	..	- - -	1¼ N	γ *Pegasi.*
	19	5,6	0	20	42,0	22	22,6	42,3	..	- - -	56¼ S	α *Phœnicis.*
	36	59,0	0	37	53,0	39	10,0	53,22	..	- - -	32 S	β *Ceti.*
	32	11,0	1	34	24,4	36	42,0	24,69	..	- - -	71¼ S	*Achernar.*
14	23	56,0	17	25	13,0	26	32,5	24,38	..	- - -	- - -	☉ 1 L.
	26	19,3	17	27	35,0	28	54,4					☉ 2 L.
	-	-	0	2	27,0	3	49,0	26.90	1	+0.9	15 N	α *Andromedæ.*
	6	7,0	0	7	19,0	8	34,0	19,2	1	0,47	1¼ N	γ *Pegasi.*
	19	6,0	0	20	43,0	22	22,7	42,9	1	0,5	56¼ S	α *Phœnicis.*
	36	40,0	0	37	54,0	39	11,0	54,22	1	1,0	32 S	β *Ceti.*
	21	3,2	1	22	13,3	23	23,0	13,3	..	- - -	6 S	δ *Centrum.* 7h 49′ 7″,38 mean Time.
15	28	22.5	17	29	39,4	30	59,4	51,01	1	1,0	- - -	☉ 1 L.
	30	43,0	17	32	1,2	33	20,6					☉ 2 L.
	1	8,0	0	2	27,6	3	50,0	27,63	1	0,8	15 N	α *Andromedæ.*
	6	7,6	0	7	19,7	8	34,6	19,85	1	0,63	1¼ N	γ *Pegasi.*
	1	37,0	1	3	2,0	4	30,7	2,19	1	0,90	21¼ N	β *Andromedæ.*
16	-	-	17	34	5,5	35	25,2	16,90	1	0,3	- - -	☉ 1 L.
	35	11,0	17	36	28,0	37	47,4					☉ 2 L.
	Wound up the Clock: Arc of Vibration 1°: 38′.											
	1	8,8	0	2	28,2	3	50,5	28,25	1	+0,63	15 N	α *Andromedæ.*
	19	8,0	0	20	44,5	22	24,2	44,52	1	0,66	56¼ S	α *Phœnicis.*
	1	37,7	1	3	2,8	4	31,3	3,08	1	0,7	21¼ N	β *Andromedæ.*

LUNAR ECLIPSE.

The Moon rose eclipsed; but it was cloudy at the time of her rising.

	Time by Clock.	*Apparent Time.*
End of Total Darkness	0h 46′ 30″	7h 9′ 52″.6
Tycho out of the Shadow	1 15 41	38 59,20

In the YEAR M.DCCCXV.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
Dec. 16												LUNAR ECLIPSE *continued.*

Time by Clock. *Apparent Time.*

Copernicus out of the Shadow	1h 16′ 15″	7h 39′ 38″,07
Plato do. do.	16 31	39 49,05
Manilius do. do.	24 15	47 31,55
Mare Serenitatis wholly out	32 41	55 55,5
Censorinus out	36 22	59 36,40
Petavius do.	42 37	8 5 59,21
End of the Eclipse	45 52	9 3,7
Penumbra entirely off	51 38	14 49,2

The MOON was rather hazy at the end of Total Darkness: the other Observations satisfactory.

17	37	15,5	17	-	-	39	52,2	47,72	1	+4,93	- - -	⊙ 1 L.
	39	40,6	17	40	54,0	14	14,0					⊙ 2 L.
	1	9,8	0	2	29,0	3	51,2	29,97	1	0,83	15 N	*α Andromedæ.*
	46	58,6	0	49	17,3	-	-	17,40	1	0,75	46½ N	*γ Cassiopeiæ.*

A. M. Examined the Line of Collimation and Meridian adjustment,—found both out a little.—Adjusted the Instrument.

18	41	43,0	17	42	59,0	44	19,0	11,31	1	−2,51	- - -	⊙ 1 L.
	44	5,0	17	45	21,0	Hazy.						⊙ 2 L.
	1	10,4	0	2	30,0	3	52,0	29,92	1	+0,8	15 N	*α Andromedæ.*
	6	10,0	0	-	-	8	37,5	22,69	2	0,9	1½ N	*γ Pegasi.*
	19	9,0	0	20	46,0	22	26,0	45,97	2	0,78	56½ S	*α Phœnicis.*
	36	43,2	0	37	57,0	39	14,0	56,78	1	0,7	32 S	*β Ceti.*
19	46	9,0	17	47	25,5	48	45,2	36,89	1	1,20	- - -	⊙ 1 L.
	48	31,0	17	49	48,0	51	7,2					⊙ 2 L.
	1	10,5	0	2	30,3	3	52,3	30,57	1	0,4	15 N	*α Andromedæ.*
	6	10,2	0	7	23,0	8	38,0	23,26	1	0,35	1½ N	*γ Pegasi.*
	31	41,6	0	33	45,3	35	53,3	45,57	1	0,4	42½ N	*α Cassiopeiæ.*
	36	43,3	0	37	57,2	39	14,3	57,34	1	0,2	32 S	*β Ceti.*
	46	59,3	0	49	18,3	51	43,0	19,11	1	0,4	46½ N	*γ Cassiopeiæ.*
20	50	35,6	17	-	-	53	12,3	5,19	1	1,19	- - -	⊙ 1 L.
	52	59,0	17	54	15,0	55	34,0					⊙ 2 L.
	6	11,0	0	7	24,0	8	38,6	23,85	1	0,8	1½ N	*γ Pegasi.*
	19	11,0	0	20	47,4	22	27,3	47,50	2	0,78	56½ S	*α Phœnicis.*
	36	44,0	0	37	58,2	39	15,0	58,30	1	0,8	32 S	*β Ceti.*
	1	40,3	1	3	5,0	4	33,0	5,18	4	0,54	21½ N	*β Andromedæ.*
	27	57,0	1	29	8,0	30	22,0	8,0	..	...	3½ S	*δ Centrum.* 7h 32′ 20″,78 mean Time.
	32	17,0	1	34	29,7	36	48,0	30,34	3	0,66	71½ S	*Achernar.*
	-	-	1	56	17,0	57	54,0	17,40	..	...	28½ N	*γ Andromedæ.*
	59	12,0	2	0	27,7	1	46,2	27,59	..	...	9½ N	*α Arietis.*
21	55	4,0	17	56	19,0	57	40,0	31,60	1	−0,09	- - -	⊙ 1 L.
	57	26,0	17	58	42,6	0	2,0					⊙ 2 L.
	31	43,0	0	33	46,7	-	-	46,7	1	+0,7	42½ N	*α Cassiopeiæ.*
	36	45,0	0	37	59,0	39	16,0	59,22	1	0,93	32 S	*β Ceti.*
	1	41,0	1	3	6,0	-	-	6,3	1	0,85	21½ N	*β Andromedæ.*
	46	54,2	1	48	9,0	49	26,0	9,24	..	...	7 N	*β Arietis.*
	54	44,0	1	56	18,0	57	55,0	18,15	1	1,0	28½ N	*γ Andromedæ.*
	59	12,7	2	0	28,3	1	47,0	28,38	1	0,7	9½ N	*α Arietis.*
22	59	30,7	18	0	47,8	2	7,5	58,34	1	1,19	- - -	⊙ 1 L.
	1	53,0	18	3	10,0	4	29,6					⊙ 2 L.
	46	55,2	1	48	10,0	49	27,0	10,24	1	1,0	7 N	*β Arietis.*
	-	-	1	56	19,0	57	56,0	19,30	1	1,0	28½ N	*γ Andromedæ.*
	59	15,7	2	0	29,0	1	48,0	29,25	1	0,9	9½ N	*α Arietis.*
23	3	59,2	18	5	15,5	6	35,5	27,96	1	1,96	- - -	⊙ 1 L.
	6	21,0	18	7	38,0	8	57,1					⊙ 2 L.

In the YEAR M.DCCCXV.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.		Names or Characters of the STARS AND PLANETS.
DEC. 23	-	-	0	38	1,0	39	18,0	1,06	2	+ 1,0	32	S	β *Ceti.*
	47	3,0	0	49	22,0	-	-	22,2	1	1,0	46½	N	γ *Cassiopeiæ.*
	46	56,0	1	47	10,6	49	28,0	10,99	1	0,8	7	N	β *Arietis.*
	54	46,0	1	56	20,0	57	57,0	20,15	1	1,0	28½	N	γ *Andromedæ.*
	59	14,4	2	0	30,0	1	49,0	30,22	1	0,9	9½	N	α *Arietis.*
24	8	26,7	18	9	43,0	11	3,2	54,51	1	0,81	-	- -	⊙ 1 L.
	10	49,0	18	12	6,0	13	25,0						⊙ 2 L.
	36	48,0	0	38	2,0	39	19,0	2,22	1	1,0	32	S	β *Ceti.*
	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.												
25	12	54,4	18	14	11,4	15	30,0	22,49	1	+ 1,18	-	- -	⊙ 1 L.
	15	16,7	18	16	33,0	17	52,5						⊙ 2 L.
	56	48,6	0	38	3,0	-	-	3,25	1	0,8	32	S	β *Ceti.*
	32	21,5	1	34	34,0	-	-	34,22	2	0,87	71½	S	*Achernar.*
	54	48,0	1	56	22,0	57	58,5	22,25	2	0,91	28½	N	γ *Andromedæ.*
26	17	22,0	18	18	38,3	19	58,2	49,79	1	0,70	-	- -	⊙ 1 L.
	19	44,0	18	21	0,0	22	20,0						⊙ 2 L.
27 28	Cloudy.												
29	54	52,0	1	56	25,5	58	3,0	25,90	4	+1,0	28½	N	γ *Andromedæ.*
30	35	11,5	18	36	28,0	37	47,0	39,20	..	...	-	- -	⊙ 1 L.
	37	33,0	18	38	50,0	40	9,0						⊙ 2 L.
	1	49,0	1	3	15,0	4	43,0	15,15	6	0,89	21½	N	β *Andromedæ.*
31	39	38,0	18	40	54,0	42	13,5	5,26	1	0,16	-	- -	⊙ 1 L.
	41	59,0	18	43	16,0	44	35,2						⊙ 2 L.
	-	-	1	3	16,0	4	43,6	16,30	1	0,8	21½	N	β *Andromedæ.*
	59	21,7	2	0	37,0	1	56,2	37,23	1	0,6	9½	N	α *Arietis.*
	-	-	2	56	28,4	57	41,0	28,40	..	...	10	S	α *Ceti.*
	-	-	3	0	3,0	1	38,0	3,3	..	...	27½	N	β *Cap. Med.*
	A. M. Lengthened the Pendulum about 1 Division.												

Observed TRANSITS

OF THE

FIXED STARS AND PLANETS

OVER THE

MERIDIAN.

In the YEAR M.DCCCXVI.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names* or *Characters* of the STARS AND PLANETS.
JAN. 1	43	43,0	18	44	59,2	46	19,3	10,41	..	....	- - -	☉ 1 L.
	46	5,2	18	47	21,3	48	41,0					☉ 2 L.
	Wound up the Clock: Arc of Vibration 1°: 37'.											
	32	5,0	1	34	18,0	36	35,6	17.72	..	....	71½ S	*Achernar.*
	46	43,0	1	47	56,6	49	14,0	56,74	..	....	7 N	*β Arietis.*
	54	32,8	1	56	6,0	57	43,0	5,94	..	....	28½ N	*γ Andromedæ.*
	59	0,4	2	0	16,0	1	36,0	16,01	..	....	9½ N	*α Arietis.*
	51	57,0	2	56	7,0	57	20,3	7,05	..	....	10 S	*α Ceti.*
	-	-	2	59	42,0	1	17,0	41,89	..	....	27½ N	*β Cap. Med.*
2	-	-	18	51	46,0	53	5,0	- -	..	....	- - -	☉ 2 L.
	32	4,0	1	34	17,0	36	35,0	17,17	1	—0,87	71½ S	*Achernar.*
	46	41,4	1	47	55,3	49	13,3	55,54	1	1,20	7 N	*β Arietis.*
	54	31,5	1	56	5,5	57	42,0	5,20	1	0,97	28½ N	*γ Andromedæ.*
	59	0,0	2	0	15,0	-	-	15,25	1	0,70	9½ N	*α Arietis.*
	54	56,0	2	56	6,0	57	19,0	6,05	1	1,10	10 S	*α Ceti.*
	58	9,0	2	59	40,5	1	16,0	40,48	1	1,25	27½ N	*β Cap. Med.*
3	52	32,0	18	53	48,2	55	7,2					☉ 1 L.
	54	53,0	18	56	10,0	57	29,0	58,81	2	0,85	- - -	☉ 2 L.
	-	-	21	55	6,0	-	-	6,0	..	....	30 S	☽ 1 L. 3ʰ 4′ 3″,6 mean Time.
	32	3,0	1	34	16,0	36	34,0	16,17	1	1,0	71½ S	*Achernar.*
	46	40,5	1	47	54,4	49	12,0	54,54	1	1,03	7 N	*β Arietis.*
	54	30,3	1	56	4,0	57	41,0	3,83	1	1,23	28½ N	*γ Andromedæ.*
	58	59,0	2	0	14,0	1	34,0	14,25	1	1,0	9½ N	*α Arietis.*
	51	55,0	2	56	5,0	57	18,2	5,05	1	0,93	10 S	*α Ceti.*
	58	8,0	2	59	40,0	1	15,0	39,76	1	0,83	27½ N	*β Cap. Med.*

EMERSION *of* JUPITER'S *second* Satellite.

Time by Clock (S.) 12ʰ 21′ 40″. Mean Time 17ʰ 27′ 16″,38.

Planet sufficiently high: flying Clouds: the Satellite emerged near the body of the Planet: the Observation not satisfactory.

In the YEAR M.DCCCXVI.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
JAN. 4	56	56,0	18	58	12,0	59	31,4			+		
	59	17,5	19	0	34,0	1	53,0	22,15	1	0,46	- - -	⊙ 1 L.
	-	-	22	43	7,2	44	24,0	6,63	..	....	27½ S	⊙ 2 L.
	54	30,0	1	56	3,5	57	40,3	3,38	1	—0,50	28½ N	☽ 1 L. 3h 48′ 1″,0 mean Time.
	58	58,0	2	0	14,0	1	33,5	14,05	1	0,50	9½ N	γ *Andromedæ.*
	54	54,5	2	56	4,6	57	18,0	4,65	1	0,37	10 S	α *Arietis.*
	58	7,7	2	59	39,4	1	14,6	39,28	1	0,43	27½ N	α *Ceti.*
												β *Cap. Med.*

IMMERSION of JUPITER's *first* Satellite.
Time by Clock (S.) 11h 18′ 41″,5. Mean Time 16h 21′ 32″,33.
Planet sufficiently high and very clear: Observation good.

5	1	19,2	19	2	35,0	3	54,6	45,73	1	1,22	- - -	⊙ 1 L.
	3	41,2	19	4	56,0	6	15,5					⊙ 2 L.
	27	2,5	23	28	15,3	29	30,0	15,01	..	....	22½ S	☽ 1 L. 4h 29′ 7″,37 mean Time.
	46	39,4	1	47	53,2	49	11,0	53,40	2	0,55	7 N	β *Arietis.*
	54	29,7	1	56	3,0	57	40,0	2,94	1	0,43	28½ N	γ *Andromedæ.*
	58	57.6	2	0	13,5	-	-	13,35	1	0,45	9½ N	α *Arietis.*
	54	54,0	2	56	4,0	57	17,0	4,05	..	....	10 S	α *Ceti.*
	12	51,0	3	14	39,0	16	30,0	38,23	..	....	26½ N	α *Persei.*
6	5	42,4	19	6	58,0	8	17,5	8,85	1	0,48	- - -	⊙ 1 L.
	8	3,0	19	9	20,0	10	38,7					⊙ 2 L.
	13	1,5	0	13	12,0	15	26,5	12,22	..	....	17½ S	☽ 1 L. 5h 11′ 1″,79 mean Time.
	12	50,7	3	14	38,6	16	29,7	38,60	1	0,33	36½ N	α *Persei.*
7	10	5,0	19	11	20,5	12	40,0	31,45	1	0,60	- - -	⊙ 1 L.
	12	26,5	19	13	42,2	15	1,0					⊙ 2 L.
	57	51,5	0	58	59,5	0	12,2	59,95	..	....	13½ S	☽ 1 L. 5h 51′ 47″,03 mean Time.
	46	38,0	1	47	52,0	49	9,4	52,05	2	0,70	7 N	β *Arietis.*
	54	28,3	1	56	1,2	57	38,4	1,2	2	0,80	28½ N	γ *Andromedæ.*
	58	56,0	2	0	11,4	1	30,0	11,38	2	0,92	9½ N	α *Arietis.*
	58	5,3	2	59	36,7	1	12,0	36,69	3	0,85	27½ N	β *Cap. Med.*
	12	50,0	3	14	38,0	16	29,0	38,23	1	0,66	36½ N	α *Persei.*
	24	49,6	5	26	0,0	27	12,0	0,35	..	....	13½ S	δ *Orionis.*
	33	41,6	5	34	52,0	36	4,4	51,75	..	....	15½ S	ζ *Orionis.*
8	14	27,0	19	15	43,0	17	2,2	53,50	1	0,65	- - -	⊙ 1 L.
	16	48,0	19	18	4,3	19	23,0					⊙ 2 L.
	43	25,5	1	44	37,6	45	51,5	37,78	..	....	7½ S	☽ 1 L. 6h 33′ 22″,28 mean Time.
	54	27,4	1	56	0,2	57	38,0	0,44	1	0,77	28½ N	γ *Andromedæ.*
	58	55,0	2	0	10,8	1	29,3	10,41	1	0,93	9½ N	α *Arietis.*
	58	4,6	2	59	36.0	1	11,5	36,04	1	0,70	27½ N	β *Cap. Med.*
	17	28,0	5	18	38,0	19	51,5	38,08	..	....	7 S	γ *Orionis.*
9	31	4,5	2	32	17,0	33	32,0	16,86	..	....	24½ S	☽ 1 L. 7h 16′ 58″,50 mean Time.
10	23	10.0	19	24	26,0	-	-	36,18	2	0,51	- - -	⊙ 1 L.
	25	30,0	19	26	47,0	28	5,0					⊙ 2 L.
	54	26,0	1	55	59,0	57	36,7	59,1	2	0,65	28½ N	γ *Andromedæ.*
	58	54,0	2	0	9,2	1	28,0	9,28	2	0.56	9½ N	α *Arietis.*
	38	3,3	2	59	34,6	1	9,6	34,54	2	0,76	27½ N	β *Cap. Med.*
	21	51,5	3	23	5,0	24	22,5	4,94	..	....	2½ N	☽ 1 L. 8h 3′ 42″,55 mean Time.
	27	29,2	4	28	42,3	29	59,0	42,41	..	....	8½ N	*Aldebaran.*

IMMERSION of JUPITER's *second* Satellite.
Time by Clock (S.) 12h 55′ 23″. Mean Time 17h 34′ 27″,24.
Planet sufficiently high and clear, but a Dew falling, and observed in the Twilight: Observation good in other respects.

11	27	31,0	19	28	46,3	30	5,0	56,63	1	0,55	- - -	⊙ 1 L.
	29	51,0	19	31	7,0	32	26,0					⊙ 2 L.

In the YEAR M.DCCCXVI.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	Names or Characters of the STARS AND PLANETS.
JAN. 11	46	34,6	1	47	49,0	49	6,3	48,75	4	0,88	7 N	β *Arietis.*
	54	25,0	1	-	-	57	35,6	58,29	1	1,05	28½ N	γ *Andromedæ.*
	58	53,0	2	0	8,7	1	27,7	8,68	1	0,93	9½ N	α *Arietis.*
	58	2,5	2	59	34,0	1	9,0	33,89	1	0,67	27½ N	β *Cap. Med.*
	12	46,0	3	14	34,0	16	25,6	33,77	3	1,03	36½ N	α *Persei.*
	16	48,0	4	18	4,0	19	23,2	3,97	..	...	6½ N	☽ 1 L. 8h 54′ 37″,45 mean Time.
12	31	51,0	19	33	6,6	34	25,2	16,63	1	0,40	- - -	☉ 1 L.
	34	11,0	19	35	27,0	36	47,5					☉ 2 L.
	54	24,3	1	55	58,0	57	35,0	57,82	1	0,65	28½ N	γ *Andromedæ.*
	58	52,3	2	0	8,0	1	27,0	8,1	1	0,70	9½ N	α *Arietis.*
	58	2,0	2	59	33,2	1	8,3	33,19	1	0,67	27½ N	β *Cap. Med.*
	-	-	3	14	33,5	16	25,0	33,5	1	0,55	36½ N	α *Persei.*
	16	25,5	5	17	43,3	19	4,0	43,17	..	...	9½ N	☽ 1 L. 9h 50′ 11″,56 mean Time.
13	36	10,0	19	37	25,3	38	45,0	36,09	1	0,24	- - -	☉ 1 L.
	38	31,0	19	39	46,4	41	5,0					☉ 2 L.
	33	37,0	5	34	47,5	36	0,0	47,32	6	0,75	15½ S	ζ *Orionis.*
	-	-	5	48	32,2	49	45,2	32,25	..	...	6 S	α *Orionis.*
	20	23,5	6	21	41,0	23	3,0	41,21	..	...	11¼ N	☽ 1 L. 10h 50′ 3″,49 mean Time.
	29	11,0	6	30	24,0	31	40,0	23,96	..	...	5¾ N	γ *Pollucis.*
14	40	30,0	19	41	45,0	43	3,0	55,01	1	0,18	- - -	☉ 1 L.
	42	49,0	19	44	5,0	45	23,3					☉ 2 L.
	58	51,5	2	0	7,2	1	26,0	7,16	2	0,44	9½ N	α *Arietis.*
	5	58,0	2	7	10,2	8	25,0	10,07	..	...	1 N	δ *Centrum.* 6h 32′ 18″,38 mean Time.
	12	44,8	3	14	33,0	16	24,4	33,3	2	0,27	36½ N	α *Persei.*
	27	3,4	7	28	22,0	29	44,3	- -	..	...	11½ N	☽ 1 L.
	29	34,0	7	30	52,5	32	14,5	52,51	..	...	- - -	☽ 2 L. 11h 55′ 7″,86 mean Time.
	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.											
15	Cloudy at Noon.											
	8	45,2	2	8	57,5	11	12,7	57,41	..	...	1 N	δ *Centrum.* 6h 31′ 10″,02 mean Time.
	12	44,0	3	14	32,0	16	23,4	32,40	1	—0,93	36½ N	α *Persei.*
	36	29,0	8	37	47,5	39	8,2	47,10	..	...	9½ N	☽ 2 L. 12h 57′ 56″,41 mean Time.
	Wound up the Clock: Arc of Vibration 1°: 38′.											
16	48	57,0	19	50	20,5	51	39,0	30,81	2	0,25	- - -	☉ 1 L.
	51	26,0	19	52	41,0	-	-					☉ 2 L.
	-	-	2	59	31,5	1	6,6	31,44	4	0,43	27½ N	β *Cap. Med.*
	41	13,5	9	-	-	43	51,2	30,69	..	...	6 N	☽ 2 L. 13h 58′ 33″,49 mean Time.
17	-	-	19	54	37,5	55	54,0	47,25	1	0,46	- - -	☉ 1 L.
	-	-	19	56	57,0	58	13,4					☉ 2 L.
	P. M. Fixed a new first Wire, the former having been broken.											
	52	47,4	2	54	48,0	56	43,0	47,86	..	...	39½ N	γ *Persei.*
	57	55,0	2	59	30,0	1	1,2	30,05	..	...	27½ N	β *Cap. Med.*
	12	38,8	3	14	30,5	16	17,0	30,37	..	...	36½ N	α *Persei.*
	IMMERSION of JUPITER'S *third* Satellite. Time by Clock (S.) 10h 18′ 30″. Mean Time 14h 30′ 32″,14. Planet low, but clear: ☽ near full and on the Meridian: Observation good.											
	42	33,3	10	43	50,0	45	3,5	50,09	..	...	1 N	☽ 2 L. 14h 55′ 47″,98 mean Time.

In the YEAR M.DCCCXVI.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names* or *Characters* of the STARS AND PLANETS.
JAN. 17	EMERSION of JUPITER's *third* Satellite. Time by Clock (S.) 12h 29′ 57″,5. Mean Time 16h 41′ 38″,17. Planet sufficiently high and clear: bright Moonlight: Observation good.											
	A. M. Found the Instrument a little out, both in Collimation and in the Meridian,—adjusted it.											
18	57	36,0	19	58	53,8	0	8,5	3,48	1	0,17	- - -	⊙ 1 L.
	59	55,0	20	1	13,2	2	28,0					⊙ 2 L.
	52	47,5	2	54	48,2	56	43,0	47,99	..	...	39½ N	γ *Persei.*
	57	55,2	2	59	30,0	1	1,2	30,10	..	...	27¾ N	β *Cap. Med.*
	12	39,0	3	14	30,6	16	17,0	30,47	..	...	36½ N	α *Persei.*
	31	20,0	3	33	8,0	34	50,3	8,0	..	...	34 N	δ *Persei.*
	38	31,0	3	39	50,0	41	6,0	30,08	..	...	10½ N	*Brightest in Pleiad.*
	44	26,2	3	45	52,0	47	13,0	51,70	..	...	18½ N	ζ *Persei.*
	-	-	3	48	48,0	50	19,0	47,97	..	...	26¾ N	ε *Persei.*
	27	23,3	4	28	39,0	29	51,0	38,38	..	...	3¼ N	*Aldebaran.*
19	1	51,5	20	3	9,0	4	24,0	18,68	1	—0,50	- - -	⊙ 1 L.
	4	10,0	20	5	28,0	6	43,0					⊙ 2 L.
	52	47,9	2	54	47,7	56	42,4	47,51	1	0,47	39½ N	γ *Persei.*
	57	54,4	2	59	29,3	1	0,5	29,37	1	0,73	27½ N	β *Cap. Med.*
	12	38,5	3	14	30,0	16	17,0	30,04	1	0,55	36½ N	α *Persei.*
	31	20,6	3	33	8,0	34	50,0	7,76	1	+0,10	34 N	δ *Persei.*
	38	30,4	3	39	49,3	41	5,4	49,43	1	—0,63	10½ N	*Brightest in Pleiad.*
	44	26,0	3	-	-	47	12,4	51,0	1	0,40	18½ N	ζ *Persei.*
	-	-	3	48	48,2	50	18,6	47,80	1	0,10	26¾ N	ε *Persei.*
20	6	6,0	20	7	24,3	8	39,0	33,48	1	0,30	- - -	⊙ 1 L.
	8	25,0	20	9	43,0	10	57,0					⊙ 2 L.
	52	47,0	2	54	47,0	56	42,0	47,03	1	0,48	39¼ N	γ *Persei.*
	57	53,6	2	59	29,0	1	0,0	28,99	1	0,53	27½ N	β *Cap. Med.*
	12	38,0	3	14	29,5	-	-	29,65	1	0,50	36½ N	α *Persei.*
	38	29,8	3	39	48,8	41	5,0	48,93	1	0,50	10½ N	*Brightest in Pleiad.*
	IMMERSION of JUPITER's *first* Satellite. Time by Clock (S.) 10h 36′ 17″,5. Mean Time 14h 56′ 30″,26. Planet low: flying Clouds: ☽ up and near ♃: the Observation uncertain owing to the flying Clouds.											
21	10	20,5	20	11	38,0	12	52,5	47,33	1	0,45	- - -	⊙ 1 L.
	12	39,2	20	13	56,4	15	10,8					⊙ 2 L.
	57	53,0	2	59	28,0	0	59,3	28,07	1	0,77	27½ N	β *Cap. Med.*
	31	19,2	3	33	6,6	34	49,0	6,61	1	0,63	34 N	δ *Persei.*
	38	29,0	3	39	48,0	-	-	47,97	1	0,80	10½ N	*Brightest in Pleiad.*
	44	25,0	3	45	50,0	47	11,0	49,95	2	0,60	18½ N	ζ *Persei.*
22	14	33,5	20	15	51,2	17	5,5	0,62	1	0,21	- - -	⊙ 1 L.
	16	51,3	20	18	10,0	19	24,2					⊙ 2 L.
	57	52,8	2	59	28,0	0	59,0	27,95	1	0,17	27½ N	β *Cap. Med.*
	31	19,0	3	33	6,2	34	48,7	6,07	1	0,30	34 N	δ *Persei.*
23	18	46,4	20	20	4,0	21	18,6	18,04	1	—0,48	- - -	⊙ 1 L.
	21	4,3	20	22	22,0	23	37,0					⊙ 2 L.
	52	45,6	2	54	46,0	56	41,0	45,93	3	0,38	39¼ N	γ *Persei.*
	57	52,2	2	59	27,7	0	58,8	27,60	1	0,37	27½ N	β *Cap. Med.*
	27	21,0	4	28	37,0	29	49,0	36,89	5	0,42	3¼ N	*Aldebaran.*
24	22	59,0	20	24	16,2	25	30,4	25,22	1	—0,08	- - -	⊙ 1 L.
	25	17,0	20	26	54,0	27	48,2					⊙ 2 L.
	52	45,0	2	54	45,5	56	40,3	45,31	1	0,60	39¼ N	γ *Persei.*
	57	52,0	2	59	27,0	0	58,2	27,05	1	0,50	27½ N	β *Cap. Med.*
	12	35,6	3	14	28,0	16	14,0	27,87	2	0,46	36½ N	α *Persei.*
	31	18,2	3	33	6,0	34	48,3	5,67	2	0,23	34 N	δ *Persei.*

In the YEAR M.DCCCXVI.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
JAN. 24	38	28,0	3	39	47,4	41	3,0	47,28	3	0,27	10¼ N	*Brightest in Pleiad.*
	44	23,7	3	45	49,0	-	-	48,96	3	0,38	18½ N	*ζ Persei.*
	47	12,0	3	48	46,0	50	16,0	46,0	5	0,48	26¼ N	*ε Persei.*
25	27	10,5	20	28	27,0	29	42,0	36,67	1	+0,25	- - -	☉ 1 L.
	29	28,0	20	30	46,0	32	0,0					☉ 2 L.
	57	52,0	2	59	27,3	0	58,0	27,15	1	0,03	27½ N	*β Cap. Med.*
	31	19,0	3	33	5,6	34	48,0	5,60	1	0,03	34 N	*δ Persei.*
	44	23,6	3	45	49,0	47	10,0	48,80	1	−0,03	18¼ N	*ζ Persei.*
	27	20,2	4	28	36,0	29	48,6	36,0	2	0,36	3¼ N	*Aldebaran.*
26	31	22,5	20	32	39,0	33	52,5	47,78	1	+0,61	- - -	☉ 1 L.
	33	39,2	20	34	57,0	36	10,0					☉ 2 L.
	52	43,0	2	54	45,0	56	40,3	45,0	2	−0,08	39½ N	*γ Persei.*
	31	19,0	3	33	6,0	34	48,0	5,80	1	+0,13	34 N	*δ Persei.*
	38	28,0	3	39	47,8	41	3,0	47,48	2	0,07	10¼ N	*Brightest in Pleiad.*
	-	-	4	28	36,0	29	48,4	35,90	1	−0,10	3¼ N	*Aldebaran.*
	29	30,4	14	30	45,0	31	56,2	44,94	..	...	25½ S	*ψ Centrum.* 18ʰ 6′ 44″,54 mean Time.
27	-	-	20	36	48,2	38	2,2	56,91	1	0,57	- - -	☉ 1 L.
	37	48,6	20	39	6,0	40	19,4					☉ 2 L.
	-	-	2	54	45,0	56	40,7	45,35	1	+0,20	39½ N	*γ Persei.*
	-	-	2	59	27,7	0	58,2	27,45	2	0,15	27½ N	*β Cap. Med.*
	12	36,6	3	14	28,0	16	14,0	27,82	1	0,10	36½ N	*α Persei.*
	31	19,2	3	33	5,5	34	48,0	5,60	1	−0,10	34 N	*δ Persei.*
	38	28,0	3	39	47,4	-	-	47,67	1	0,20	10¼ N	*Brightest in Pleiad.*
	44	24,0	3	-	-	47	10,0	48,80	1	0,0	18½ N	*ζ Persei.*
	27	20,0	4	28	36,0	29	49,0	36,05	1	+0,30	3¼ N	*Aldebaran.*

IMMERSION of JUPITER's *first* Satellite.
Time by Clock (8.) 12ʰ 58′ 41″. Mean Time 16ʰ 31′ 0″,74.
Planet *high*, but *flying* Clouds: Observation otherwise good.

28	12	36,3	3	14	28,0	16	14,2	27,79	1	0,03	36¼ N	*α Persei.*
	27	20,2	4	28	36,6	29	48,8	36,35	1	+0,20	3¼ N	*Aldebaran.*
	30	9,8	14	31	24,2	32	36,0	24,33	..	...	26¼ S	*ψ Centrum.* 17ʰ 59′ 32″,96 mean Time.
29	43	49,2	20	45	5,7	46	19,3	14,66	2	0,37	- - -	☉ 1 L.
	46	6,0	20	47	23,5	48	37,0					☉ 2 L.
	38	28,0	3	39	47,3	41	3,3	47,31	2	−0,02	10¼ N	*Brightest in Pleiad.*
	44	23,6	3	45	49,0	47	10,5	48,90	2	+0,02	18¼ N	*ζ Persei.*
	19	50,0	4	21	7,0	22	21,0	7,07	..	...	5½ N	*ε Tauri.*
	27	20,7	4	28	36,6	29	48,4	36,38	1	0,03	3¼ N	*Aldebaran.*
	46	49,0	4	-	-	49	38,7	15,56	..	...	20 N	*ι Aurigæ.*
	50	21,0	4	52	1,0	53	37,0	1,05	..	...	30½ N	*ε Aurigæ.*
	55	15,9	4	56	52,0	58	24,0	51,75	..	...	28 N	*η Aurigæ.*
	30	28,2	14	31	43,0	32	54,0	42,83	..	...	26¼ S	*ψ Centrum.* 17ʰ 55′ 55″ mean Time.
30	47	57,3	20	49	14,2	50	27,0	22,26	1	0,40	- - -	☉ 1 L.
	50	14,0	20	51	30,5	52	44,0					☉ 2 L.
	38	28,0	3	39	48,0	41	3,0	47,67	1	0,13	10¼ N	*Brightest in Pleiad.*
	44	23,5	3	45	49,0	47	10,3	48,85	1	−0,10	18½ N	*ζ Persei.*
	19	50,4	4	21	7,0	22	20,6	7,07	1	0,0	5½ N	*ε Tauri.*
	46	49,0	4	48	15,4	49	38,0	15,40	1	0,35	20 N	*ι Aurigæ.*
	50	20,8	4	52	1,0	53	37,0	1,0	1	0,07	30½ N	*ε Aurigæ.*
	55	15,0	4	56	52,0	58	24,3	51,82	1	+0,10	28 N	*η Aurigæ.*
	30	46,7	14	32	2,0	33	12,6	1,74	..	...	26½ S	*ψ Centrum.* 17ʰ 52′ 18″,02 mean Time.
31	52	4,0	20	53	20,0	54	33,8	28,66	1	−0,0	- - -	☉ 1 L.
	54	20,2	20	55	37,2	56	50,3					☉ 2 L.
	12	36,2	3	14	28,0	16	14,0	27,84	2	0,03	36¼ N	*α Persei.*
	38	28,0	3	-	-	41	2,8	7,03	1	0,10	10¼ N	*Brightest in Pleiad.*
	44	24,0	3	45	49,0	47	10,2	48,93	1	+0,13	18½ N	*ζ Persei.*

In the YEAR M.DCCCXVI.

DAY OF THE MONTH.	I. Wire. MERIDIAN.			III. Wire.		Reduction of Wires.	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
	H	M	S	M	S	S				
JAN. 31	Wound up the Clock: Arc of Vibration 1°: 38′.									
FEB. 1	56	9,6	20	57	26,0	58	39,0	38,96	1	+ 0,90	- - -	⊙ 1 L.
	58	25,5	20	59	42,2	0	55,0					⊙ 2 L.
	12	36,0	3	14	27,3	16	14,0	27,51	1	—0,30	36½ N	*α Persei.*
	31	18,0	3	32	5,2	34	47,6	4,93	2	0,20	34 N	*δ Persei.*
	38	27,7	3	35	48,0	41	3,0	47,63	1	0,17	10½ N	*Brightest in Pleiad.*
	14	23,6	3	45	48,8	47	9,5	48,77	1	0,43	18¼ N	*ζ Persei.*
	19	50,0	4	21	6,6	22	20,0	6,72	2	0,24	5½ N	*ε Tauri.*
	27	20,0	4	28	36,0	29	48,0	35,80	1	0,20	3½ N	*Aldebaran.*
	55	15,0	4	56	51,2	.	.	51,15	2	0,20	28 N	*η Aurigæ.*
	7	42,2	5	8	55,5	10	6,0	55,68	..	. . .	22 S	*β Orionis.*
	17	16,6	5	18	30,0	19	40,0	30,03	..	. . .	7 S	*γ Orionis.*
	24	37,0	5	25	50,0	27	0,0	49,90	..	. . .	13½ S	*δ Orionis.*
2	Cloudy.											
3	4	18,0	21	5	34,4	6	47,7	42,15	2	0,43	- - -	⊙ 1 L.
	6	35,0	21	7	50,0	9	3,0					⊙ 2 L.
	Cloudy at Night.											
4	-	-	21	-	-	10	50,0	45,25	1	0,43	- - -	⊙ 1 L.
	10	36,2	21	11	53,5	.	.					⊙ 2 L.
	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.											
5	12	24,0	21	13	40,2	14	52,6	47,96	1	+ 0,96	- - -	⊙ 1 L.
	14	39,7	21	15	56,0	17	8,8					⊙ 2 L.
	44	23,0	3	45	48,2	47	9,0	48,45	4	—0,14	18¼ N	*ζ Persei.*
	19	49,0	4	21	6,7	22	19,5	6,40	4	0,12	5½ N	*ε Tauri.*
	27	19,6	4	28	35,0	29	48,0	34,90	4	0,12	3½ N	*Aldebaran.*
	50	19,8	4	52	0,0	53	37,0	0,41	..	. . .	30½ N	*ε Aurigæ.*
6	16	27,0	21	17	42,0	.	.	49,91	1	+0,41	- - -	⊙ 1 L.
	-	-	21	19	58,0	21	9,0					⊙ 2 L.
	44	23,2	3	45	48,0	47	9,8	48,37	1	0,27	18¼ N	*ζ Persei.*
	19	49,2	4	21	6,0	22	19,0	5,97	1	—0,33	5½ N	*ε Tauri.*
	-	-	4	28	34,6	29	48,0	34,6	1	0,20	3½ N	*Aldebaran.*
	55	14,0	4	56	51,6	52	23,0	50,99	5	0,06	28 N	*η Aurigæ.*
	17	16,0	5	18	29,7	19	39,0	29,26	5	0,13	7 S	*γ Orionis.*
	24	37,0	5	25	49,6	27	0,0	49,70	5	0,03	13½ S	*δ Orionis.*
	28	53,0	5	30	6,0	31	16,0	5,90	5	0,11	14½ S	*ε Orionis.*
	33	29,2	5	34	42,0	35	52,0	41,91	5	0,07	15½ S	*ζ Orionis.*
7	20	27,0	21	21	43,0	22	56,0	50,36	1	0,14	- - -	⊙ 1 L.
	22	42,0	21	23	57,2	25	10,2					⊙ 2 L.
	50	43,6	3	52	1,5	53	16,3	1,56	..	. . .	5 N	☽ 1 L. 6h 42′ 56″,46 mean Time.
	19	49,2	4	21	6,0	22	19,0	5,97	1	+0,07	5½ N	*ε Tauri.*
	7	42,0	5	8	55,0	10	6,2	54,94	6	—0,03	22 S	*β Orionis.*
	17	16,0	5	18	29,4	19	39,0	29,61	1	+0,10	7 S	*γ Orionis.*
	24	37,2	5	25	50,0	26	59,5	50,05	1	0,03	13½ S	*δ Orionis.*
	28	53,0	5	30	6,0	31	15,6	6,03	1	—0,13	14½ S	*ε Orionis.*
	33	29,0	5	34	42,0	35	52,7	41,92	1	+0,17	15½ S	*ζ Orionis.*
8	24	27,7	21	25	42,2	26	55,0	49,91	1	—0,15	- - -	⊙ 1 L.
	26	42,0	21	27	57,0	29	10,0					⊙ 2 L.
	-	-	3	45	48,2	47	9,0	48,2	2	0,15	18¼ N	*ζ Persei.*
	19	49,0	4	21	6,0	22	19,0	5,92	1	0,07	5½ N	*ε Tauri.*
	27	19,4	4	28	35,0	29	48,0	35,15	1	0,20	3½ N	*Aldebaran.*
	46	29,5	4	47	49,0	49	6,0	49,23	..	. . .	8½ N	☽ 1 L. 7h 34′ 19″,47 mean Time.
	7	41,6	5	8	55,0	10	6,0	54,93	1	0,20	22 S	*β Orionis.*
	24	37,0	5	25	50,0	27	0,0	49,90	1	+0,10	13½ S	*δ Orionis.*
	28	53,0	5	30	6,0	31	15,6	6,03	1	0,0	14½ S	*ε Orionis.*
	33	29,0	5	34	42,0	35	52,0	41,90	..	. . .	15½ S	*ζ Orionis.*

In the YEAR M.DCCCXVI.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.		Names or Characters of the STARS AND PLANETS.
FEB. 8	41	1,0	5	42	15,0	43	25,8	15,09	..	. . .	23	S	*χ Orionis.*
	47	12,0	5	48	26,0	49	30,0	25,88	..	. . .	6	S	*α Orionis.*
9	28	26,0	21	29	41,0	30	53,2						
	30	40,3	21	31	56,0	33	8,2	48,70	1	—0,01	- - -		☉ 1 L.
	27	19,0	4	28	35,2	-	-	34,80	1	0,10	31	N	☉ 2 L.
	50	19,2	4	52	0,0	53	35,5	59,88	4	0,18	30½	N	*Aldebaran.*
	55	14,2	4	56	50,0	58	22,3	50,28	3	0,23	28	N	*ε Aurigæ.*
	7	41,6	5	8	54,8	10	5,5	54,81	1	0,23	22	S	*ϑ Aurigæ.*
	17	15,6	5	18	29,0	19	39,0	29,03	2	0,14	7	S	*β Orionis.*
	28	53,0	5	30	5,0	31	15,0	5,38	1	0,53	14½	S	*γ Orionis.*
	33	28,7	5	34	42,0	35	51,6	41,95	1	0,23	15½	S	*ε Orionis.*
	46	50,0	5	48	12,5	49	30,4	12,40	..	. . .	11	N	*ζ Orionis.*
													☽ 1 L. 8h 30′ 37″,22 mean Time.
10	32	24,0	21	-	-	34	51,0						
	34	38,0	21	35	54,3	37	6,0	46,36	1	0,44	- - -		☉ 1 L.
	19	48,0	4	21	5,0	22	18,0	4,92	2	0,50	5½	N	☉ 2 L.
	27	19,0	4	28	34,3	29	47,0	34,56	1	0,45	31	N	*ε Tauri.*
	50	19,2	4	51	59,8	53	35,5	59,79	1	0,07	30½	N	*Aldebaran.*
	55	14,0	4	56	49,8	58	22,0	50,07	1	0,23	28	N	*ε Aurigæ.*
	7	41,0	5	8	54,5	-	-	54,37	1	0,30	22	S	*ϑ Aurigæ.*
	28	52,0	5	30	5,0	31	14,2	4,93	1	0,60	14¼	S	*β Orionis.*
	33	28,0	5	34	41,3	35	50,5	41,15	1	0,83	15¼	S	*ε Orionis.*
11	36	21,0	21	37	36,7	38	48,2						
	38	36,0	21	39	51,0	41	5,0	43,87	1	+0,21	- - -		☉ 1 L.
	19	48,0	4	21	5,0	22	18,0	4,92	1	0,0	5½	N	☉ 2 L.
	27	18,6	4	28	34,0	39	47,0	33,95	1	—0,23	31	N	*ε Tauri.*
	-	-	4	51	59,0	53	35,0	59,0	1	0,65	30½	N	*Aldebaran.*
	55	13,5	4	56	49,0	58	22,0	49,19	1	0,43	28	N	*ε Aurigæ.*
	-	-	5	8	54,0	10	4,8	54,0	1	0,50	22	S	*ϑ Aurigæ.*
													β Orionis.

IMMERSION of JUPITER'S *second* Satellite.
Time by Clock (S.) 14h 28′ 49″. Mean Time 17h 1′ 57″,32.
Planet high and clear: Observation good.

A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.

12	40	18,0	21	41	33,0	42	44,4			—			
	42	31,2	21	43	47,2	44	59,0	39,92	1	0,95	- - -		☉ 1 L.
	19	47,5	4	21	4,7	22	18,2	4,31	1	0,20	5½	N	☉ 2 L.
	27	18,0	4	28	33,3	29	46,2	33,61	1	0,70	31	N	*ε Tauri.*
	50	18,3	4	51	58,2	53	34,0	58,31	1	0,90	30½	N	*Aldebaran.*
	55	13,0	4	56	49,2	58	21,3	49,34	1	0,47	28	N	*ε Aurigæ.*
	17	14,0	5	18	27,2	19	37,3	27,01	3	0,33	7	S	*ϑ Aurigæ.*
	24	35,6	5	25	48,0	26	58,0	47,92	4	0,45	13¼	S	*γ Orionis.*
	33	27,0	5	34	40,0	35	49,0	39,88	2	0,64	15½	S	*β Orionis.*
													ζ Orionis.

IMMERSION of JUPITER'S *first* Satellite.
Time by Clock (S.) 12h 15′ 49″,5. Mean Time 14h 45′ 24″,40.
Planet at a convenient altitude: Clear: Moonlight: Observation good.

13	44	14,0	21	45	30,0	46	40,4			+			
	46	27,0	21	47	42,0	48	54,0	35 84	1	0,22	- - -		☉ 1 L.
	27	17,8	4	28	33,0	29	45,5	32,94	1	—0,40	31	N	☉ 2 L.
	50	17,4	4	51	58,0	53	34,3	57,75	1	0,23	30½	N	*Aldebaran.*
	55	12,0	4	56	48,3	58	20,2	48,31	1	1,0	28	N	*ε Aurigæ.*
	24	35,0	5	25	47,2	26	57,2	47,53	1	0,67	13¼	S	*ϑ Aurigæ.*
	33	26,7	5	34	39,3	35	48,7	39,07	1	0,43	15¼	S	*β Orionis.*
													ζ Orionis.

In the YEAR M.DCCCXVI.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
FEB. 14	48	8,3	21	49	23,4	50	35,0					
	50	21,8	21	51	37,0	52	49,0	30,38	1	0,36	- - -	☉ 1 L.
	27	16,7	4	28	32,0	29	44,5					☉ 2 L.
	50	17,0	4	51	57,4	53	33,4	31,04	1	1,08	9½ N	*Aldebaran.*
	55	11,7	4	56	48,0	58	20,0	57,52	1	0,63	30½ N	ε *Aurigæ.*
	7	39,0	5	8	52,0	10	3,0	47,70	1	0,27	28 N	η *Aurigæ.*
	17	13,0	5	18	26,0	19	37,0	52,59	3	0,55	22 S	β *Orionis.*
	24	34,2	5	25	46,7	26	56,3	26,38	2	0,42	7 S	γ *Orionis.*
	28	50,0	5	30	3,0	31	13,0	46,85	1	0,73	13½ S	δ *Orionis.*
	33	26,0	5	34	39,0	"	"	2,90	4	0,43	14½ S	ε *Orionis.*
								39,0	1	0,50	15½ S	ζ *Orionis.*
15	52	2,2	21	53	17,0	54	28,5					
	54	15,4	21	55	30,2	56	42,2	24,11	1	−0,47	" - -	☉ 1 L.
	27	16,0	4	28	31,8	29	44,3					☉ 2 L.
	7	38,2	5	8	51,3	10	2,0	31,88	1	0,37	9½ N	*Aldebaran.*
	28	49,7	5	30	2,3	31	12,0	51,59	1	0,87	22 S	β *Orionis.*
	33	25,7	5	34	38,2	35	48,0	2,07	1	0,67	14½ S	ε *Orionis.*
	40	58,2	5	42	12,0	43	22,2	38,52	1	0,37	15½ S	ζ *Orionis.*
								11,99	..	...	23 S	κ *Orionis.*
16	55	55,5	21	57	10,5	58	21,0					
	58	8,0	21	59	24,2	0	35,0	16,99	1	0,71	" - -	☉ 1 L.
												☉ 2 L.
	Wound up the Clock: Arc of Vibration 1°: 37'.											
	27	15,0	4	28	31,0	29	43,4	31,15	1	0,90	9½ N	*Aldebaran.*
	50	16,0	4	51	56,0	53	32,0	56,21	2	0,48	30½ N	ε *Aurigæ.*
	55	10,8	4	56	47,0	58	19,0	46,70	2	0,43	28 N	η *Aurigæ.*
	7	37,8	5	8	51,0	10	1,0	51,09	1	0,57	22 S	β *Orionis.*
	17	12,0	5	18	25,0	"	"	25,0	2	0,50	7 S	γ *Orionis.*
	24	33,2	5	25	45,5	26	55,3	45,75	2	0,40	13½ S	δ *Orionis.*
	28	49,0	5	30	1,8	"	"	1,8	1	0,60	14½ S	ε *Orionis.*
	47	29,2	5	49	11,0	50	50,0	11,27	..	...	22 N	β *Aurigæ.*
	21	2,2	6	"	"	24	57,0	6,89	..	...	65½ S	*Canopus.*
17	59	48,2	22	1	3,3	2	15,0					
	2	1,0	22	3	16,0	4	27,0	9,67	1	+0,07	" - -	☉ 1 L.
	7	37,0	5	8	50,5	10	0,5					☉ 2 L.
	24	32,8	5	25	45,0	26	55,0	50,17	1	−0,60	22 S	β *Orionis.*
	28	48,8	5	30	1,0	31	11,0	44,92	1	0,40	13½ S	δ *Orionis.*
	33	24,5	5	34	37,7	35	47,0	0,92	1	0,50	14½ S	ε *Orionis.*
	40	57,0	5	42	10,7	13	21,0	37,26	2	0,45	15½ S	ζ *Orionis.*
	16	28,0	6	17	45,0	18	58,0	10,74	2	0,44	23 S	κ *Orionis.*
	21	2.0	6	23	1,8	24	56,4	45,9	..	...	31½ S	β *Can. Maj.*
								1,8	1	0,40	65½ S	*Canopus.*
18	3	40,0	22	4	55,0	6	6,3					
	5	52,8	22	7	8,0	8	19,2	1,24	1	0,53	- - -	☉ 1 L.
	4	30,2	5	6	15,0	7	54,4					☉ 2 L.
	21	32,0	5	25	45,0	26	54,4	14,91	..	...	32½ N	*Capella.*
	28	49,0	5	30	0,6	31	11,0	44,98	1	0,47	13½ S	δ *Orionis.*
	33	24,0	5	34	37,0	35	47,0	0,18	1	0,20	14½ S	ε *Orionis.*
	40	56,2	5	42	10,0	13	21,0	36,90	1	0,40	15½ S	ζ *Orionis.*
	47	8,0	5	48	21,8	49	31,0	9,92	1	0,50	23 S	κ *Orionis.*
	16	28,0	6	17	44,4	18	57,4	21,81	1	0,23	6 S	ε *Orionis.*
								44,16	1	0,40	31½ S	β *Can. Maj.*
	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.											
19	7	31,6	22	8	46,0	9	57,0					
	9	44,0	22	10	58,2	12	10,0	52,19	1	0,35	- - -	☉ 1 L.
	17	10,5	5	18	24,0	19	35,0					☉ 2 L.
	"	"	5	34	36,2	35	46,3	23,92	3	0,42	7 S	γ *Orionis.*
	40	56,0	5	42	10,0	43	20,3	36,2	1	0,75	15½ S	ζ *Orionis.*
	47	27,0	5	49	10,0	50	48,0	9,97	1	0,30	23 S	κ *Orionis.*
	16	28,0	6	17	44,0	18	57,0	9,76	3	0,38	32 N	β *Aurigæ.*
								43,95	1	0,27	31½ S	β *Can. Maj.*

In the YEAR M.DCCCXVI.

DAY OF THE MONTH.	I. Wire. M S	MERIDIAN. H M S	III. Wire. M S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
FEB. 19	IMMERSION of JUPITER's *first* Satellite. Time by Clock (S.) 14h 36′ 0″,0. Mean Time 16h 37′ 43″,90. Planet on the Zenith: Moonlight: Clear: Observation good.							
	50 12,5	15 51 29,0	52 44,5	29,03	..	. . .	31½ S	☽ 2 L. 17h 53′ 0″,55 mean Time.
20	11 22,5	22 12 36,6	13 48,0	43,0	1	+0,11	. . .	⊙ 1 L.
	18 35,0	22 14 49,4	16 0,0					⊙ 2 L.
	" "	5 8 50,0	10 0,0	50,0	3	−0,17	22 S	*β Orionis.*
	" "	5 17 48,0	19 7,2	48,0	2	0,40	15½ N	*β Tauri.*
	" "	5 30 0,0	31 10,0	0,0	2	0,40	14½ S	*ε Orionis.*
	33 24,0	5 " "	35 46,0	36,76	1	0,30	15½ S	*ζ Orionis.*
	47 7,0	5 48 20,8	49 30,0	20,51	2	0,50	6 S	*α Orionis.*
	" "	6 17 43,8	18 57,0	43,60	1	0,10	31½ S	*β Can. Maj.*
21	15 13,0	22 16 27,0	17 38,5	33,21	1	+0,11	. . .	⊙ 1 L.
	17 25,2	22 18 39,4	19 50,0					⊙ 2 L.
	" "	5 6 15,6	7 54,6	15,6	3	−0,13	32½ N	*Capella.*
	16 25,0	5 17 47,8	19 7,0	47,90	1	0,20	15½ N	*β Tauri.*
	24 32,0	5 25 44,2	26 54,0	44,48	3	0,13	13½ S	*δ Orionis.*
	28 48,0	5 30 0,6	31 10,0	0,18	1	0,30	14½ S	*ε Orionis.*
	33 23,7	5 34 37,0	35 46,0	37,30	1	0,15	15½ S	*ζ Orionis.*
	" "	5 42 10,0	43 20,0	9,84	2	0,08	23 S	*α Orionis.*
	47 7,0	5 48 20,0	49 30,0	19,91	1	0,23	6 S	
22	19 2,0	22 20 17,0	21 28,0	22,95	1	+0,34	. . .	⊙ 1 L.
	21 15,0	22 22 29,0	23 40,0					⊙ 2 L.
	4 30,0	5 6 14,6	7 54,5	14,68	1	−0,55	32½ N	*Capella.*
	16 25,0	5 17 48,4	19 7,0	48,20	1	+0,20	15½ N	*β Tauri.*
	24 32,0	5 25 44,5	26 54,0	44,63	1	0,10	13½ S	*δ Orionis.*
	28 48,0	5 30 1,0	31 10,0	0,88	1	0,13	14½ S	*ε Orionis.*
	33 24,0	5 34 36,7	35 46,0	36,73	1	0,0	15½ S	*ζ Orionis.*
	40 56,0	5 42 10,0	43 20,0	9,89	1	0,0	23 S	*α Orionis.*
	EMERSION of JUPITER's *third* Satellite. Time by Clock (S.) 10h 35′ 51″,5. Mean Time 12h 26′ 26″,52. Planet sufficiently high and clear: Observation good.							
23	22 58,5	22 24 5,5	25 16,5	11,59	1	0,36	. . .	⊙ 1 L.
	25 3,0	22 26 17,4	27 28,5					⊙ 2 L.
	24 31,6	5 25 44,0	26 54,0	43,92	1	0,30	13½ S	*δ Orionis.*
	28 48,0	5 30 0,5	31 10,0	0,63	1	0,17	14½ S	*ε Orionis.*
	33 24,0	5 34 36,0	35 46,0	36,38	1	0,23	15½ S	*ζ Orionis.*
	" "	5 42 9,8	43 20,0	9,8	1	0,35	23 S	*α Orionis.*
	47 7,0	5 48 20,0	49 30,0	19,91	2	0,0	6 S	*α Orionis.*
	" "	6 17 44,0	18 57,0	44,04	3	0,03	31½ S	*β Can. Maj.*
	21 1,0	6 23 0,7	24 55,5	0,07	3	0,07	65½ S	*Canopus.*
	38 54,2	6 40 10,0	41 22,0	9,97	..	. . .	29½ S	*Sirius.*
24	26 40,0	22 27 55,0	29 4,5	59,85	1	+0,28	. . .	⊙ 1 L.
	28 51,4	22 30 5,0	31 16,0					⊙ 2 L.
	7 35,4	5 8 49,0	9 59,0	48,98	4	−0,25	22 S	*β Orionis.*
	17 8,0	5 18 21,8	19 33,0	21,81	5	0,45	7 S	*γ Orionis.*
	47 26,0	5 49 9,0	50 47,0	8,76	5	0,20	32 N	*β Aurigæ.*
	21 1,0	6 23 0,5	24 55,2	0,21	1	0,17	65½ S	*Canopus.*
25	30 27,2	22 31 41,5	" "	47,36	1	+0,49	. . .	⊙ 1 L.
	" "	22 33 53,0	35 4,0					⊙ 2 L.
	7 35,0	5 8 49,0	9 59,0	48,88	1	−0,13	22 S	*β Orionis.*
	17 7,7	5 18 21,4	19 33,0	21,71	1	0,23	7 S	*γ Orionis.*
	40 55,0	5 42 9,0	43 19,5	9,02	2	0,32	23 S	*κ Orionis.*
	47 26,6	5 49 9,0	50 47,7	9,31	1	0,43	32 N	*β Aurigæ.*

In the YEAR M.DCCCXVI.

DAY of the MONTH.	I. Wire. M S	MERIDIAN. H M S	III. Wire. M S	Reduction of Wires. S	No. of Days.	Rate of Clock.	Zenith Distance.	*Names* or *Characters* of the STARS AND PLANETS.
FEB. 25	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.							
26	34 14,0	22 35 28,3	36 39,2	34,01	1	+0,35	- - -	☉ 1 L.
	36 26,2	22 37 39,3	38 50,0					☉ 2 L.
	4 29,0	5 6 14,0	7 53,0	13,76	4	—0,26	32¼ N	*Capella.*
	16 24,0	5 17 47,0	19 6,0	47,0	4	0,08	15½ N	*β Tauri.*
	24 31,0	5 25 43,0	26 53,0	43,38	3	0,09	13½ S	*δ Orionis.*
	28 47,0	5 30 0,0	31 9,0	59,88	3	0,28	14¼ S	*ε Orionis.*
	33 22,8	5 34 35,0	35 45,0	34,92	3	0,39	15¼ S	*ζ Orionis.*
	47 6,0	5 48 19,8	49 29,5	19,62	3	0,19	6 S	*α Orionis.*
27	38 0,0	22 39 15,0	40 25,2	20,12	1	0,11	- - -	☉ 1 L.
	40 12,0	22 41 26,0	42 36,0					☉ 2 L.
	4 29,0	5 6 13,6	7 53,0	13,56	1	0,13	32¼ N	*Capella.*
	16 24,3	5 17 46,6	19 6,0	46,87	1	0,03	15½ N	*β Tauri.*
	22 10,2	5 23 29,0	24 43,0	28,62	..	...	34½ S	*β Leporis.*
	26 27,0	5 27 44,0	28 57,0	43,92	..	...	31½ S	*α Leporis.*
	33 22,0	5 34 35,0	35 45,0	34,90	1	0,23	15½ S	*ζ Orionis.*
	47 6,3	5 48 20,0	49 30,0	19,96	1	+0,33	6 S	*α Orionis.*
	16 26,0	6 17 42,6	18 55,6	42,26	4	0,35	31½ S	*β Can. Maj.*
	21 0,2	6 22 59,6	24 54,0	59,26	3	0,32	65¼ S	*Canopus.*
28	41 46,7	22 43 0,5	44 11,4		1	0,66	- - -	☉ 1 L.
	43 58,0	*22 45 12,3	*46 23,5	- -				☉ 2 L.
	Western end of the Axis 0',22 too high.							
	16 23,5	5 17 47,0	19 5,5	46,52	1	0,57	15½ N	*β Tauri.*
	26 27,0	5 27 44,0	28 57,0	43,92	1	0,0	31½ S	*α Leporis.*
	33 22,2	*5 34 36,0	35 45,0	- -	1	+0,10	15½ S	*ζ Orionis.*
	Western end of the Axis 0',85 too high.							
	47 6,0	5 48 20,6	49 30,2	20,23	1	0,17	6 S	*α Orionis.*
	IMMERSION of JUPITER's *first* Satellite. Time by Clock (S.) 11h 33' 59",5. Mean Time 13h 0' 50",27. Planet sufficiently high and clear: Observation good.							
29	45 32,2	22 46 45,0	47 56,2		1	0,60	- - -	☉ 1 L.
	47 42,0	*22 48 57,4	*50 7,5	- -				☉ 2 L.
	- -	5 17 46,6	19 5,0	46,6	1	0,45	15½ N	*β Tauri.*
	22 10,0	5 23 28,0	24 42,4	- -	1	0,33	34½ S	*β Leporis.*
	26 27,0	5 27 43,3	28 56,2	43,10	1	0,50	31½ S	*α Leporis.*
	33 22,0	5 - -	35 45,0	34,81	1	0,19	15½ S	*ζ Orionis.*
	40 55,0	*5 42 9,0	43 19,3	- -	4	0,02	23 S	*κ Orionis.*
	Eastern end of the Axis 0',25 too high.							
	47 6,0	5 48 19,8	49 29,5	19,8	1	0,50	6 S	*α Orionis.*
	IMMERSION of JUPITER's *second* Satellite. Time by Clock (S.) 9h 59' 40". Mean Time 11h 22' 51",28. Planet low and tremulous: Observation not satisfactory.							

In the YEAR M.DCCCXVI.

DAY OF THE MONTH.	I. Wire. M S	MERIDIAN. H M S	III. Wire. M S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
FEB. 29	IMMERSION of JUPITER's *third* Satellite. Time by Clock (S.) 12h 54′ 48″,0. Mean Time 14h 17′ 30″,62. Planet high and clear: Observation good.							
	EMERSION of JUPITER's *third* Satellite. Time by Clock (S.) 15h 1′ 18″. Mean Time 16h 23′ 39″,63. Planet in the Zenith: Clear: Observation good.							
MARCH 1	49 17,2	22 50 30,2	51 41,3	- -	1	0,0	- - -	☉ 1 L.
	51 28,0	*22 52 41,0	*53 51,5					☉ 2 L.
	Eastern end of the Axis 0′,15 too high.							
	Wound up the Clock: Arc of Vibration 1°: 37′.							
	16 22,5	5 17 46,0	19 5,0	45,49	1	0,30	15¾ N	β *Tauri.*
	24 30,0	*5 25 43,0	26 52,2	- -	4	0,22	13¾ S	δ *Orionis.*
	Western end of the Axis 0′,69 too high.							
	28 46,0	5 - -	31 8,2	58,79	4	0,22	14¼ S	ε *Orionis.*
	33 22,0	5 - -	35 44,3	34,84	1	0,35	15¾ S	ζ *Orionis.*
	40 55,0	*5 42 8,4	43 19,2	- -	1	0,23	23 S	κ *Orionis.*
	Eastern end of the Axis 0′,02 too high.							
	47 6,0	5 48 19,2	49 29,3	18,98	1	0,23	6 S	α *Orionis.*
	16 26,0	*6 17 42,2	18 56,0	- -	3	0,07	31¼ S	β *Can. Maj.*
	Eastern end of the Axis 0′,45 too high.							
	38 53,0	*6 40 8,7	41 21,0	- -	7	0,16	29¼ S	*Sirius.*
	Eastern end of the Axis 0′,2 too high.							
2	53 1,0	22 54 15,2	55 25,3	- -	1	0,24	- - -	☉ 1 L.
	55 12,2	*22 56 26,7	*57 36,0					☉ 2 L.
	Eastern end of the Axis 0′,05 too high.							
	16 28,8	5 17 45,8	19 5,0	45,40	1	+0,03	15¼ N	β *Tauri.*
	24 29,4	*5 25 43,0	26 52,6	- -	1	−0,07	13¼ S	δ *Orionis.*
	Western end of the Axis 0′,69 too high.							
	28 46,0	*5 29 59,0	31 8,0	- -	1	−0,10	14¼ S	ε *Orionis.*
	Western end of the Axis 0′,22 too high.							

In the YEAR M.DCCCXVI.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names* or *Characters* of the STARS AND PLANETS.
MARCH 2	33	21,2	*5	34	35,4	35	44,0	- -	1	—0,55	15½ S	ζ *Orionis.*
	Western end of the Axis 1',01 *too* high.											
	40	54,6	*5	42	9,0	43	18,6	- -	1	—0,13	23 S	κ *Orionis.*
	Eastern end of the Axis 0',02 too high.											
	47	5,5	5	48	19,2	49	29,0	19,08	1	—0,27	6 S	α *Orionis.*
	20	58,6	6	22	58,8	24	52,6	58,31	1	0,50	65½ S	*Canopus.*
3	56	45,2	22	57	58,0	59	8,2	- -	1	1,20	- - -	☉ 1 L.
	58	55,6	*22	0	9,3	*1	19,2					☉ 2 L.
	Western end of the Axis 0',22 too high.											
	By the mean of the foregoing Observations, the Western end of the Axis appears to be 0',20 too high.											
	28	45,3	5	29	58,0	31	7,8	57,87	1	—0,63	14½ S	ε *Orionis.*
	33	21,0	5	34	34,5	35	44,0	34,11	1	0,37	15½ S	ζ *Orionis.*
	47	5,0	5	48	18,3	49	28,8	18,0	1	0,70	6 S	α *Orionis.*
	-	-	6	22	58,5	24	52,2	58,5	1	0,35	65½ S	*Canopus.*
	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.											
4	0	27,7	23	1	41,6	2	51,2	46,48	1	+0,09	- - -	☉ 1 L.
	2	37,8	23	3	52,0	5	2,0					☉ 2 L.
	33	20,4	5	34	34,0	35	44,0	33,94	1	—0,37	15½ S	ζ *Orionis.*
	40	53,2	5	42	7,0	-	-	6,98	..	...	23 S	κ *Orionis.*
	47	4,4	5	48	18,0	49	28,0	17,95	1	0,40	6 S	α *Orionis.*
	14	56,0	6	16	20,0	17	40,0	19,97	..	...	43½ S	ζ *Can. Maj.*
	20	58,0	6	22	57,6	24	52,0	57,68	1	0,55	65½ S	*Canopus.*
	38	52,0	6	40	8,0	41	20,0	7,88	3	0,30	29½ S	*Sirius.*
	53	6,0	6	54	20,0	55	48,2	29,01	..	...	42 S	ε *Can. Maj.*
	2	39,2	7	4	0,5	5	17,0	0,24	..	...	39½ S	δ *Can. Maj.*
5	4	10,5	23	5	23,8	6	34,2	22,33	1	+0,05	- - -	☉ 1 L.
	6	20,0	23	7	35,9	8	45,0					☉ 2 L.
	14	56,2	6	16	20,0	17	40,0	20,05	1	0,07	43½ S	ζ *Can. Maj.*
	20	57,6	6	22	57,3	24	51,8	57,03	1	—0,30	65½ S	*Canopus.*
	53	6,0	6	54	29,0	55	48,0	28,96	1	0,07	42 S	ε *Can. Maj.*
	-	-	7	4	0,0	5	17,0	59,90	1	0,25	39½ S	δ *Can. Maj.*
6	7	58,7	23	9	6,4	10	16,7	11,71	1	0,02	- - -	☉ 1 L.
	10	3,8	23	11	16,8	12	27,3					☉ 2 L.
	14	55,5	6	16	19,2	17	39,4	19,30	1	0,70	43½ S	ζ *Can. Maj.*
	20	57,2	6	22	57,0	24	51,2	56,98	1	0,43	65½ S	*Canopus.*
	38	51,5	6	40	7,0	41	19,0	7,0	2	0,41	29½ S	*Sirius.*
	Immersion of JUPITER's *first* Satellite. Time by Clock (S.) 1ʰ 56′ 7″,6. Mean Time 14ʰ 55′ 5″,13. Planet high and clear: Observation good.											
7	11	34,2	23	12	47,6	13	57,8	52,47	½	1,14	- - -	☉ 1 L.
	13	44,0	23	14	57,3	16	7,3					☉ 2 L.
	14	55,2	6	16	19,0	17	39,0	19,02	1	0,30	43½ S	ζ *Can. Maj.*
	38	50,6	6	40	6,8	41	19,0	6,05	1	0,53	29½ S	*Sirius.*
	53	5,0	6	54	28,0	55	47,0	27,96	2	0,50	42 S	ε *Can. Maj.*

In the YEAR M.DCCCXVI.

DAY OF THE MONTH.	I. Wire. M S	MERIDIAN. H M S	III. Wire. M S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names* or *Characters* of the STARS AND PLANETS.
MARCH 7	IMMERSION of JUPITER's *second* Satellite. Time by Clock (S.) 13h 1′ 48″,5. Mean Time 13h 57′ 6″,56. Planet high and clear: Observation good.							
	Lowered the Western end of the Axis, a very little.							
8	15 16,0	23 16 29,3	17 39,0	24,07	1	0,10	- - -	☉ 1 L.
	17 25,0	23 18 39,0	19 49,2					☉ 2 L.
	21 19,5	6 22 41,0	24 0,0	40,78	..	...	12 N	☽ 1 L. 7h 15′ 2″,91 mean Time.
	53 4,4	6 54 28,0	55 47,0	27,49	1	0,20	42 S	ε *Can. Maj.*
	2 37,2	7 3 38,7	5 16,0	38,32	3	0,42	39½ S	δ *Can. Maj.*
9	18 57,2	23 20 10,0	21 20,0	- -	1	0,02	- - -	☉ 1 L.
	21 6,7	*23 22 20,2	*23 29,7					☉ 2 L.
	Western end of the Axis 0′,22 too high.							
	53 4,0	6 54 27,4	55 46,5	27,23	1	0,57	42 S	ε *Can. Maj.*
	2 37,0	7 3 38,2	5 15,5	38,11	1	0,47	39½ S	δ *Can. Maj.*
	24 55,0	7 26 17,0	27 36,0	16,78	..	...	11½ N	☽ 1 L. 8h 14′ 32″,73 mean Time.
	31 50,0	7 32 43,0	33 53,0	42,87	..	...	7½ S	*Procyon.*
10	22 37,6	23 23 53,0	25 0,3	- -	1	+0,27	- - -	☉ 1 L.
	24 47,2	*23 26 0,5	*27 10,3					☉ 2 L.
	Eastern end of the Axis 0′,42 too high.							
	14 54,0	6 16 18,0	17 38,0	17,97	3	0,36	43½ S	ζ *Can. Maj.*
	20 55,0	6 22 55,0	24 49,4	54,98	3	0,43	65½ S	*Canopus.*
	38 49,0	*6 40 5,5	41 18,2	- -	2	0,58	29½ S	*Sirius.*
	53 4,0	6 54 27,0	55 46,0	26,96	1	0,23	42 S	ε *Can. Maj.*
	2 37,0	7 3 37,8	5 15,0	37,84	1	0,23	39½ S	δ *Can. Maj.*
11	26 17,6	23 27 30,3	28 40,6	- -	1	1,16	- - -	☉ 1 L.
	28 27,2	*23 29 40,3	*30 49,5					☉ 2 L.
	Eastern end of the Axis 0′,075 too high.							
	14 53,6	6 16 17,7	17 38,0	17,36	1	0,23	43½ S	ζ *Can. Maj.*
	20 54,6	6 22 54,8	24 49,2	54,33	1	0,27	65½ S	*Canopus.*
	38 49,0	*6 40 5,0	41 17,6	- -	1	0,37	29½ S	*Sirius.*
	Eastern end of the Axis 0′,3 too high.							
	53 3,2	6 - -	55 46,0	25,98	1	0,40	42 S	ε *Can. Maj.*
	2 36,2	7 3 37,8	5 15,0	37,38	1	0,27	39½ S	δ *Can. Maj.*
	31 50,0	7 32 43,0	33 53,0	42,87	2	0,0	7½ S	*Procyon.*
12	29 57,5	23 31 10,2	32 20,2	- -	1	+0,05	- - -	☉ 1 L.
	32 7,3	*23 33 20,4	*34 30,3					☉ 2 L.
	Western end of the Axis 0′,17 too high.							
	14 53,0	6 16 17,7	17 37,3	17,38	1	−0,46	43½ S	ζ *Can. Maj.*
	20 54,7	6 22 54,3	24 49,0	54,07	1	+0,20	65½ S	*Canopus.*
	38 49,0	6 40 5,0	41 17,0	4,88	1	−0,20	29½ S	*Sirius.*

In the YEAR M.DCCCXVI.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	Names or Characters of the STARS AND PLANETS.
MARCH 12	53	3,0	6	54	26,0	55	45,4	26,06	1	0,40	42 S	ε *Can. Maj.*
	2	36,0	7	3	57,0	5	14,2	56,99	1	0,60	39½ S	δ *Can. Maj.*
13	33	36,7	23	34	59,8	36	0,2	- -	1	0,30	- - -	⊙ 1 L.
	35	46,0	*23	37	0,0	*38	9,2					⊙ 2 L.
	Western end of the Axis 0',05 too high.—The Axis may be considered level.											
	14	53,2	6	16	17,0	17	37,0	17,02	1	0,27	43½ S	ζ *Can. Maj.*
	20	54,0	6	22	54,0	24	48,2	53,93	1	0,60	65½ S	*Canopus.*
	38	48,5	*6	40	5,0	41	16,6	- -	1	0,30	29½ S	*Sirius.*
	53	2,3	6	54	25,4	55	43,0	25,18	1	0,57	42 S	ε *Can. Maj.*
	2	35,5	7	3	56,7	5	14,0	56,42	1	0,33	39¼ S	δ *Can. Maj.*
	IMMERSION of JUPITER's *first* Satellite. Time by Clock (S.) 16h 17' 22',5. Mean Time 16h 48' 29',83. Planet high, but ☽ up and full: heavy Dew: Observation otherwise good.											
14	37	15,0	23	38	29,3	39	29,2	33,85	1	0,56	- - -	⊙ 1 L.
	39	25,0	23	40	38,8	41	48,6					⊙ 2 L.
	14	52,3	6	16	16,0	17	36,0	16,05	1	0,97	45½ S	ζ *Can. Maj.*
	20	53,8	6	22	53,5	24	48,0	53,18	1	0,30	65½ S	*Canopus.*
	28	50,2	6	30	6,0	31	19,0	5,91	..	- - -	3¼ N	γ *Geminorum.*
	38	48,0	6	-	-	41	16,0	3,76	1	0,55	29½ S	*Sirius.*
	53	2,0	6	54	25,0	55	44,2	25,01	1	0,50	42 S	ε *Can. Maj.*
	2	35,0	7	3	56,0	-	-	55,93	1	0,60	39¼ S	δ *Can. Maj.*
	IMMERSION of JUPITER's *second* Satellite. Time by Clock (S.) 16h 2' 16',5. Mean Time 16h 29' 30',62. Planet high, but ☽ up and near ♑: Dew: Observation otherwise good.											
15	40	54,8	23	42	7,7	43	17,2	12,42	1	0,63	- - -	⊙ 1 L.
	43	4,0	23	44	17,0	45	27,2					⊙ 2 L.
	-	-	6	30	6,2	31	18,6	6,2	1	0,10	3½ N	γ *Geminorum.*
	38	47,8	6	40	3,4	41	15,7	3,11	1	0,25	29½ S	*Sirius.*
	53	1,8	6	54	24,8	55	43,5	24,39	1	0,37	42 S	ε *Can. Maj.*
	IMMERSION of JUPITER's *first* Satellite. Time by Clock (S.) 10h 52' 45'. Mean Time 11h 16' 54',44. Planet low, but clear: Moonlight: Dew: Observation otherwise good.											
16	44	33,4	23	45	46,3	46	56,2	50,93	1	0,49	- - -	⊙ 1 L.
	45	42,3	23	47	55,6	49	5,0					⊙ 2 L.
	Wound up the Clock: Arc of Vibration 1°: 37'.											
	20	53,0	6	22	52,4	24	47,0	52,58	2	0,48	65½ S	*Canopus.*
	28	49,0	6	30	5,0	31	17,3	4,95	1	1,25	3¼ N	γ *Geminorum.*
	38	46,0	6	40	2,2	41	14,8	2,18	1	1,80	29½ S	*Sirius.*
	53	1,0	6	54	24,2	55	43,0	24,06	1	0,63	42 S	ε *Can. Maj.*
	2	34,0	7	3	54,8	5	13,0	54,86	1	0,77	39¼ S	δ *Can. Maj.*
	31	26,7	7	32	40,6	33	50,0	40,32	5	0,62	7¼ S	*Procyon.*
	-	-	7	37	2,8	38	22,0	2,8	..	- - -	15¼ N	β *Geminorum.*

In the YEAR M.DCCCXVI.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock. +	Zenith Distance.	Names or Characters of the STARS AND PLANETS.
MARCH 17	48	12,0	23	19	25,0	50	35,0					
	50	26,3	23	51	34,0	52	44,0	30,02	1	0,29	- - -	☉ 1 L.
	28	49,0	6	30	4,4	31	17,0					☉ 2 L.
	38	46,0	6	40	2,0	41	15,0	4,58	1	−0,30	3¼ N	γ *Geminorum.*
	53	0,0	6	54	23,8	55	43,2	1,90	1	0,0	29½ S	*Sirius.*
	31	26,7	7	32	40,0	33	50,0	23,89	1	0,10	42 S	ε *Can. Maj.*
	35	40,0	7	37	3,0	38	21,7	40,02	1	0,20	7¼ S	*Procyon.*
								2,7	1	0,03	15½ N	β *Geminorum.*
18	51	50,0	23	53	3,4	54	13,4					
	53	59,2	23	55	14,0	56	22,2	8,30	1	−0,42	- - -	☉ 1 L.
	28	48,2	6	30	4,0	31	17,0					☉ 2 L.
	38	46,0	6	40	2,0	41	14,5	3,91	1	0,40	3¼ N	γ *Geminorum.*
	53	0,0	6	54	24,0	55	42,8	2,0	1	0,17	29½ S	*Sirius.*
	2	33,5	7	3	54,5	5	11,8	23,66	1	0,07	42 S	ε *Can. Maj.*
	31	27,0	7	-	-	33	50,0	54,22	1	0,27	39¼ S	δ *Can. Maj.*
	35	40,0	7	37	2,6	38	22,0	39,74	1	0,15	7¼ S	*Procyon.*
								2,76	1	0,23	15½ N	β *Geminorum.*
19	55	29,2	23	56	41,8	57	52,0					
	57	38,0	23	58	51,0	0	0,2	46,47	1	0,23	- - -	☉ 1 L.
	38	46,0	6	40	2,0	41	14,0					☉ 2 L.
	53	0,0	6	54	23,4	55	42,6	1,88	1	0,17	29½ S	*Sirius.*
	2	33,0	7	3	54,2	5	12,0	23,26	1	0,27	42 S	ε *Can. Maj.*
	24	21,0	7	25	50,2	27	12,0	54,06	1	0,29	39¼ S	δ *Can. Maj.*
	31	27,0	7	32	39,6	33	49,7	50,05	2	0,36	19¼ N	*Castor.*
	35	39,8	7	37	2,7	38	22,0	39,84	1	0,15	7¼ S	*Procyon.*
								2,35	1	0,03	15½ N	β *Geminorum.*
20	59	7,2	0	0	20,0	1	30,2					
	1	16,0	0	2	29,0	3	39,0	24,22	1	0,65	- - -	☉ 1 L.
	53	0,0	6	54	22,8	55	42,0					☉ 2 L.
	2	33,0	7	3	54,2	5	11,6	22,86	1	0,40	42 S	ε *Can. Maj.*
	31	26,5	7	32	40,0	33	50,0	54,19	1	0,13	39¼ S	δ *Can. Maj.*
	35	40,0	7	37	2,5	38	21,6	39,97	1	+0,07	7¼ S	*Procyon.*
								2,09	1	−0,20	15½ N	β *Geminorum.*
21	2	45,5	0	3	58,8	5	8,0					
	4	54,2	0	6	7,0	7	17,3	2,92	1	+0,50	- - -	☉ 1 L.
	2	33,2	7	3	54,0	5	11,4					☉ 2 L.
	31	26,0	7	32	39,8	-	-	54,09	1	−0,20	39¼ S	δ *Can. Maj.*
	35	39,2	7	37	2,0	38	21,2	39,8	1	0,35	7¼ S	*Procyon.*
	5	5,0	8	6	51,5	8	33,0	2,06	1	0,50	15¼ N	β *Geminorum.*
								51,47	..	. . .	59½ S	γ *Navis.*
22	6	25,0	0	7	36,2	8	45,6					
	8	32,0	0	9	45,0	10	55,0	40,40	1	0,72	- - -	☉ 1 L.
	2	32,7	7	3	53,8	5	11,0					☉ 2 L.
	31	26,0	7	32	40,0	33	49,0	53.38	1	0,37	39¼ S	δ *Can. Maj.*
	35	39,0	7	37	2,0	38	21,0	39,37	1	+0,10	7¼ S	*Procyon.*
								1,96	1	0,13	15¼ N	β *Geminorum.*

IMMERSION of JUPITER's *first* Satellite.
Time by Clock (S.) 13h 14′ 0″. Mean Time 13h 10′ 21″,84.
Planet high and clear: Observation good.

23	10	2,0	0	11	14,8	12	24,0					
	12	10,6	0	13	22,8	14	32,4	18,85	1	0,35	- - -	☉ 1 L.
	-	-	7	3	53,0	5	10,4					☉ 2 L.
	24	23,2	7	25	49,0	27	12,0	53.0	1	−0,70	39¼ S	δ *Can. Maj.*
	31	26,0	7	32	39,2	-	-	49,02	2	0,26	19¼ N	*Castor.*
	58	32,0	8	0	6,0	1	36,7	39,25	1	0.30	7¼ S	*Procyon.*
	5	5,0	8	6	51,0	8	33,0	6,22	2	0,35	52½ S	ζ *Navis.*
								51,22	2	0,08	59½ S	γ *Navis.*
24	13	39,0	0	14	52,0	16	1,8					
	15	48,0	0	17	1,0	18	10,4	56,27	1	0,58	- - -	☉ 1 L.
	2	32,0	7	3	53.0	5	10,5					☉ 2 L.
	24	23,3	7	25	49,0	27	12,0	53.01	1	0,05	39¼ S	δ *Can. Maj.*
	31	25,6	7	32	39,0	33	49,0	49,02	1	+0,03	19¼ N	*Castor.*
	35	38,5	7	37	1,7	38	20,3	38,99	1	−0,30	7¼ S	*Procyon.*
								1,52	1	0,27	15¼ N	β *Geminorum.*

In the YEAR M.DCCCXVI.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
MARCH 24	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.											
25	17	16,5	0	18	29,5	19	39,4	33,91	1	0,36	- - -	⊙ 1 L.
	19	25,2	0	20	38,2	21	48,0					⊙ 2 L.
	-	-	7	25	49,0	27	11,4	49,10	1	—0,80	19¼ N	*Castor.*
	31	25,0	7	32	38,2	33	48,4	37,98	1	0,57	7½ S	*Procyon.*
	35	38,0	7	37	1,2	38	20,0	1,06	1	0,43	15½ N	*β Geminorum.*
	58	31,2	8	0	5,0	1	35,0	5,14	2	0,42	52½ S	*ζ Navis.*
	5	4,0	8	6	50,0	8	32,0	50,22	2	0,50	59½ S	*γ Navis.*
26	20	53,7	0	22	6,8	23	16,5	11,30	1	0,61	- - -	⊙ 1 L.
	23	2,8	0	24	16,0	25	25,4					⊙ 2 L.
	2	31,0	7	3	52,3	5	9,6	52,94	1	0,80	89½ S	*δ Can. Maj.*
	24	22,0	7	25	43,2	27	10,3	48,17	1	0,05	19¼ N	*Castor.*
	31	24,2	7	32	37,6	33	48,0	37,69	1	0,60	7½ S	*Procyon.*
	35	37,3	7	37	0,4	38	19,3	0,25	1	0,73	15½ N	*β Geminorum.*
	58	30,8	8	0	4,5	1	34,4	4,38	1	0,50	52½ S	*ζ Navis.*
27	24	31,0	0	25	44,3	26	54,0	48,62	1	0,68	- - -	⊙ 1 L.
	26	40,0	0	27	52,8	29	3,0					⊙ 2 L.
	31	23,8	7	32	37,0	33	47,4	36,87	1	0,53	7½ S	*Procyon*
	35	37,0	7	36	59,6	38	19,0	59,68	1	0,47	15½ N	*β Geminorum.*
	5	2,8	8	6	48,8	8	31,0	48,67	2	0,56	59½ S	*γ Navis.*
28	28	9,2	0	29	22,0	30	31,6	26,12	1	0,50	- - -	⊙ 1 L.
	30	17,5	0	31	30,0	32	40,5					⊙ 2 L.
	31	23,2	7	32	36,7	33	46,6	36,24	1	0,57	7½ S	*Procyon.*
	35	36,2	7	36	59,0	38	18,2	59,06	1	0,73	15½ N	*β Geminorum.*
	58	29,5	8	0	4,0	2	33,8	3,65	2	0,49	52½ S	*ζ Navis.*
	5	2,2	8	6	48,2	8	30,3	48,45	1	0,63	59½ S	*γ Navis.*
29	31	46,2	0	32	59,0	34	9,3	3,58	1	0,54	- - -	⊙ 1 L.
	33	55,0	0	35	7,7	36	18,0					⊙ 2 L.
	24	20,2	7	25	46,4	27	8,4	46,34	2	0,76	19¼ N	*Castor.*
	31	23,0	7	32	36,0	33	46,0	35,87	1	0,50	7½ S	*Procyon.*
	35	36,0	7	36	58,5	38	17,6	58,25	1	0,43	15½ N	*β Geminorum.*
	58	29,0	8	0	3,5	1	33,2	3,39	1	0,53	52½ S	*ζ Navis.*
	5	1,8	8	6	48,0	8	29,6	47,76	1	0,43	59½ S	*γ Navis.*
	IMMERSION of JUPITER's *first* Satellite. Time by Clock (S.) 15h 36′ 2″. Mean Time 15h 4′ 27″,4. Planet high, but somewhat hazy: Observation otherwise good.											
30	35	24,5	0	36	36,7	37	46,7	41,16	1	0,64	- - -	⊙ 1 L.
	37	32,3	0	38	45,5	39	55,5					⊙ 2 L.
	24	20,0	7	25	46,9	27	8,0	45,99	1	0,33	19¼ N	*Castor.*
	31	22,4	7	32	35,2	33	45,4	34,99	1	0,67	7½ S	*Procyon.*
	35	35,2	7	36	58,0	38	17,0	58,01	1	0,63	15½ N	*β Geminorum.*
	58	28,3	8	0	2,8	1	32,5	2,74	1	0,70	52½ S	*ζ Navis.*
	5	1,2	8	6	47,2	8	29,0	47,38	1	0,73	59½ S	*γ Navis.*
31	39	1,5	0	40	14,2	41	25,0	18,78	1	0,48	- - -	⊙ 1 L.
	41	10,0	0	42	23,2	43	33,0					⊙ 2 L.
	24	19,0	7	25	45,0	27	7,5	45,07	1	0,90	19¼ N	*Castor.*
	31	21,6	7	32	34,8	33	44,6	34,79	1	0,67	7½ S	*Procyon.*
	35	35,0	7	36	57,7	38	16,0	57,33	1	0,50	15½ N	*β Geminorum.*
	58	28,0	8	0	2,0	1	32,0	2,0	1	0,53	52½ S	*ζ Navis.*
	5	0,4	8	6	47,0	8	28,2	47,0	1	0,60	59½ S	*γ Navis.*
	IMMERSION of JUPITER's *first* Satellite. Time by Clock (S.) 10h 10′ 50″. Mean Time 9h 32′ 17″,78. Planet low and hazy: Observation in other respects good.											

In the YEAR M.DCCCXVI.

DAY OF THE MONTH.	I. Wire. M S	MERIDIAN. H M S	III. Wire. M S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
MARCH 31	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right. Wound up the Clock: Arc of Vibration 1°: 37'.							
APRIL 1	42 39,2	0 43 52,0	45 2,4	56,93	1	−0,15	. . .	⊙ 1 L.
	44 48,0	0 46 0,2	47 10,8					⊙ 2 L.
	31 21,0	7 32 34,0	33 44,0	34,31	1	0,67	7½ S	*Procyon.*
	58 27,2	8 0 1,4	1 31,2	1,47	1	0,73	52½ S	*ζ Navis.*
	4 59,7	8 6 46,4	8 27,4	40,60	1	0,70	59½ S	*γ Navis.*
	IMMERSION of JUPITER's *second* Satellite. Time by Clock (S.) 11h 34' 59". Mean Time 10h 52' 17",10 Planet low, but clear: Observation good.							
2	4 59,2	8 6 46,0	8 27,0	46,17	1	0,43	59½ S	*γ Navis.*
	. .	8 21 35,0	23 52,8	35,0	. .	. . .	72 S	*ε Navis.*
	2 29,2	9 4 8,2	5 40,0	7,87	. .	. . .	56 S	*λ Navis.*
3	49 54,2	0 51 7,5	52 17,5	12,42	1	0,61	. . .	⊙ 1 L.
	52 3,0	0 53 16,5	54 26,4					⊙ 2 L.
	31 20,0	7 32 33,3	33 43,0	33,46	2	0,45	7½ S	*Procyon.*
	35 33,0	7 36 56,0	38 14,7	56,38	2	0,56	15½ N	*β Geminorum.*
4	53 32,2	0 54 45,5	55 56,5	50,30	1	0,72	. . .	⊙ 1 L.
	55 41,0	0 56 55,0	58 4,5					⊙ 2 L.
	4 58,4	8 6 45,0	8 26,3	45,30	2	0,42	59½ S	*γ Navis.*
	19 15,5	8 . .	23 32,0	38,72	2	0,40	72 S	*ε Navis.*
	2 28,7	9 4 7,2	5 41,0	7,57	2	0,45	56 S	*λ Navis.*
	20 12,6	9 . .	22 36,3	27,03	. .	. . .	21½ S	*α Hydræ.*
5	57 10,4	0 58 24,3	59 34,5	28,82	1	0,18	. . .	⊙ 1 L.
	59 20,0	0 0 33,2	1 43,3					⊙ 2 L.
	4 58,2	8 6 44,4	8 25,8	44,82	1	0,43	59½ S	*γ Navis.*
	19 15,2	8 21 36,0	23 51,2	36,08	1	0,55	72 S	*ε Navis.*
	IMMERSION of JUPITER's *third* Satellite. Time by Clock (S.) 11h 4' 45". Mean Time 10h 6' 26",16. Planet low, but clear: Moonlight: Observation good. IMMERSION of JUPITER's *first* Satellite. Time by Clock (S.) 17h 58' 4",5. Mean Time 16h 58' 38",27. Planet sufficiently high and clear: Twilight: Observation good.							
6	0 49,5	1 2 8,0	3 13,0	9,81	1	+1,99	. . .	⊙ 1 L.
	3 4,0	1 4 11,3	5 26,0					⊙ 2 L.
	3 17,0	8 4 38,4	5 55,6	38,03	. .	. . .	11½ N	☽ 1 L. 7h 2' 51",0 mean Time.
	2 27,2	9 4 6,5	5 40,6	6,94	2	−0,44	56 S	*λ Navis.*
7	4 28,0	1 5 41,3	6 51,2	45,69	1	0,12	. . .	⊙ 1 L.
	6 36,3	1 7 50,2	9 0,2					⊙ 2 L.
	19 14,4	8 21 35,2	23 50,3	35,44	2	0,42	72 S	*ε Navis.*
	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.							
8	8 6,4	1 9 19,8	10 30,0	24,48	1	−0,55	. . .	⊙ 1 L.
	10 15,3	1 11 28,8	12 39,4					⊙ 2 L.

In the YEAR M.DCCCXVI.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
APRIL 8	IMMERSION of JUPITER's *second* Satellite. Time by Clock (S.) 14h 36′ 32″,5. Mean Time 13h 25′ 53″,13. Planet near the Zenith: hazy rather, and full ☽: Observation otherwise satisfactory.											
9	11	45,5	1	12	59,0	14	9,2	3,80	1	0,22	- - -	⊙ 1 L.
	13	54,7	1	15	8,0	15	18,5					⊙ 2 L.
	The third Wire broke.											
12	P. M. Fixed new Wires.											
	4	53,3	8	6	41,2	8	20,8	40,75	..	...	59½ S	*γ Navis.*
	40	20,3	8	42	26,3	44	22,0	25,91	..	...	66½ S	*ι Navis.*
	2	23,9	9	4	3,2	5	37,0	3,34	..	...	56 S	*λ Navis.*
	20	8,0	9	21	23,3	22	32,0	22,94	..	...	21½ S	*α Hydræ.*
	IMMERSION of JUPITER's *third* Satellite. Time by Clock (S.) 15h 30′ 32″,5. Mean Time 14h 6′ 20″,01. Planet very high: ☽ full and near ♑: Observation good.											
13	26	22,2	1	27	37,0	28	46,4	41,47	..	...	- - -	⊙ 1 L.
	28	31,6	1	29	45,6	30	56,0					⊙ 2 L.
	4	52,0	8	6	40,0	8	20,0	39,98	1	1,10	59½ S	*γ Navis.*
	19	9,0	8	21	32,3	23	44,4	32,30	1	0,77	72 S	*ε Navis.*
	40	19,8	8	42	25,6	44	22,8	25,92	1	0,47	66½ S	*ι Navis.*
	2	22,0	9	4	2,8	5	36,0	2,87	1	0,80	56 S	*λ Navis.*
	-	-	9	21	22,2	22	31,0	22,04	1	1,15	21½ S	*α Hydræ.*
14	30	2,5	1	31	17,5	32	26,5	22,31	1	0,16	- - -	⊙ 1 L.
	32	12,0	1	33	27,2	34	36,4					⊙ 2 L.
	19	8,4	8	21	31,8	23	44,2	31,85	1	0,43	72 S	*ε Navis.*
	40	19,2	8	42	25,0	44	22,0	25,27	1	0,67	66½ S	*ι Navis.*
	47	19,4	8	48	28,5	49	37,0	28,32	..	...	6½ S	*ζ Hydræ.*
	51	59,0	8	53	49,2	55	31,8	49,46	..	...	34½ N	*η Urs. Maj.*
	20	7,0	9	21	21,7	22	30,3	21,64	1	0,60	21½ S	*α Hydræ.*
	IMMERSION of JUPITER's *first* Satellite. Time by Clock (S.) 14h 54′ 55″. Mean Time 13h 21′ 39″,95. Planet high and clear: Moonlight: Observation good.											
15	33	42,8	1	34	58,0	36	7,8	3,03	1	0,27	- - -	⊙ 1 L.
	35	52,4	1	37	8,0	38	17,4					⊙ 2 L.
	19	8,2	8	21	31,0	23	43,2	31,15	1	0,66	72 S	*ε Navis.*
	40	18,8	8	42	24,0	44	21,9	24,13	1	0,80	66½ S	*ι Navis.*
	47	13,0	8	48	27,8	49	36,0	27,62	1	0,80	6½ S	*ζ Hydræ.*
	51	58,2	8	53	48,8	55	31,0	48,85	1	0,66	34½ N	*η Urs. Maj.*
	2	21,0	9	4	1,4	5	35,0	1,67	1	0,66	56 S	*λ Navis.*
	20	6,0	9	21	20,8	-	-	20,89	1	0,95	21½ S	*α Hydræ.*
	IMMERSION of JUPITER's *second* Satellite. Time by Clock (S.) 17h 37′ 51″,5. Mean Time 15h 59′ 14″,97. Planet sufficiently high, and hazy: Moonlight: Observation otherwise good.											
	Wound up the Clock: Arc of Vibration 1°: 38′.											

In the YEAR M.DCCCXVI.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters of the* STARS AND PLANETS.
APRIL 16	37	24,0	1	38	39,0	39	48,5	44,02	1	0,71	- - -	⊙ 1 L.
	39	33,5	1	40	49,0	41	58,6					⊙ 2 L.
	40	18,2	8	42	24,0	44	21,0	24,27	1	0,20	66½ S	δ *Navis.*
	47	19,2	8	48	26,8	49	36,8	27,02	1	0,87	6½ S	ζ *Hydræ.*
	51	57,6	8	53	48,0	55	30,0	48,06	1	0,80	34¼ N	ϰ *Urs. Maj.*
			IMMERSION of JUPITER'S *first* Satellite. Time by Clock (S.) 9h 29′ 20″. Mean Time 7h 48′ 7″,42. Planet very low, but clear: Observation good.									
17	41	5,0	1	42	20,5	43	30,0	25,46	1	1,56	- - -	⊙ 1 L.
	43	15,0	1	44	30,5	45	40,3					⊙ 2 L.
	19	7,4	8	21	30,5	23	42,3	30,47	1	0,10	72 S	ε *Navis.*
	40	17,6	8	42	23,8	44	20,8	23,97	1	0,33	66½ S	δ *Navis.*
	51	58,0	8	53	48,0	55	30,0	48,16	1	+0,13	34¼ N	ϰ *Urs. Maj.*
	2	20,2	9	4	1,0	5	34,0	1.21	1	−0,50	56 S	λ *Navis.*
	20	5,0	9	21	20,0	22	29,0	20,06	2	0,45	21½ S	α *Hydræ.*
18	44	45,6	1	46	2,5	47	12,5	7,26	1	0,70	- - -	⊙ 1 L.
	46	57,0	1	48	12,0	49	22,2					⊙ 2 L.
	40	18,0	8	42	23,8	44	20,0	23,87	1	0,13	66½ S	δ *Navis.*
	47	12,2	8	48	26,7	49	36,0	26,87	1	0,05	6½ S	ζ *Hydræ.*
	51	58,0	8	53	48,0	55	30,8	48,11	1	+0,23	34¼ N	ϰ *Urs. Maj.*
	2	20,0	9	4	1,0	5	34,0	0,97	1	−0,07	56 S	λ *Navis.*
	20	5,0	9	21	19,8	22	28,8	19,81	1	0,13	21½ S	α *Hydræ.*
19	48	29,5	1	49	45,3	50	55,0	50,16	1	+0,10	- - -	⊙ 1 L.
	50	39,4	1	51	55,0	53	5,0					⊙ 2 L.
	40	17,0	8	42	23,0	44	19,6	23,12	1	−0,73	66½ S	δ *Navis.*
	2	19,3	9	4	0,0	5	33,0	0,05	1	0,90	56 S	λ *Navis.*
	12	34,2	9	14	56,0	17	7,0	56,10	. .	. . .	71½ S	ι *Navis.*
	20	4,0	9	21	19,0	22	29,7	18,98	1	0,80	21½ S	α *Hydræ.*
20	52	12,4	1	53	27,8	54	37,5	35,02	1	0,44	- - -	⊙ 1 L.
	54	21,0	1	55	38,0	56	48,0					⊙ 2 L.
	47	12,0	8	48	26,0	49	35,0	26,22	2	0,31	6½ S	ζ *Hydræ.*
	51	57,0	8	53	47,0	55	29,5	47,29	1	0,15	34¼ N	ϰ *Urs. Maj.*
	2	19,2	9	3	59,6	5	33,2	59,87	1	0,10	56 S	λ *Navis.*
	12	33,6	9	14	56,0	17	6,4	55,80	1	0,30	71½ S	ι *Navis.*
	20	4,0	9	21	19,0	-	-	18,98	1	0,0	21½ S	α *Hydræ.*
	7	52,0	10	9	13,0	10	28,0	15,09	. .	. . .	11½ N	ζ *Leonis.*
21	55	55,0	1	57	11,0	58	21,0	16,06	1	0,76	- - -	⊙ 1 L.
	58	5,0	1	59	20,6	0	32,0					⊙ 2 L.
	Cloudy at Night.											
22	59	39,0	2	0	54,5	2	5,0	59,88	1	0,38	- - -	⊙ 1 L.
	1	49,0	2	3	5,0	4	15,0					⊙ 2 L.
	2	18,8	9	3	59,2	-	-	59,2	2	0,20	56 S	λ *Navis.*
	20	3,0	9	21	18,0	22	27,0	17,96	2	0,50	21½ S	α *Hydræ.*
	-	-	10	1	19,4	2	29,8	19,48	2	0,30	½ S	*Regulus.*
	7	51,0	10	9	12,0	10	27,2	12,14	2	0,46	11½ N	ζ *Leonis.*
	11	15,5	10	12	35,0	13	47,7	34,87	2	0,20	8 N	γ *Leonis.*
23	3	23,2	2	4	39,0	5	49,0	44,12	1	0,46	- - -	⊙ 1 L.
	5	33,0	2	6	49,2	7	59,5					⊙ 2 L.
	51	56,2	8	53	46,2	55	28,0	46,31	3	0,23	34¼ N	ϰ *Urs. Maj.*
	2	18,0	9	-	-	5	31,8	58,85	1	0,80	56 S	λ *Navis.*
	12	33,0	9	14	54,0	17	5,0	54,30	3	0,44	71½ S	ι *Navis.*
	20	3,0	9	-	-	22	27,0	17,93	1	0,0	21½ S	α *Hydræ.*
	-	-	10	1	19,0	2	29,0	18,88	1	0,60	½ S	*Regulus.*
	7	50,7	10	9	12,0	10	27,6	12,01	1	0,17	11½ N	ζ *Leonis.*
	11	15,5	10	12	34,0	13	47,0	34,19	1	0,57	8 N	γ *Leonis.*

In the YEAR M.DCCCXVI.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
APRIL 23	IMMERSION of JUPITER's *first* Satellite. Time by Clock (S.) 11h 51′ 55″. Mean Time 9h 42′ 50″,19. Planet sufficiently high and clear, but the Telescope not steady at the time of the Observation.											
24	7	7,0	2	8	23,7	9	34,0	28,93	1	0,29	- - -	⊙ 1 L.
	9	18,0	2	10	34,0	11	45,0					⊙ 2 L.
	-	-	9	3	58,0	5	30,8	57,89	..	. . .	56 S	λ *Navis.*
	12	32,0	9	14	54,0	17	5,0	54,05	1	0,33	71½ S	ι *Navis.*
	20	3,0	9	21	17,8	22	26,5	17,56	1	0,25	21½ S	α *Hydræ.*
	36	47,2	9	38	8,0	39	23,0	8,14	1	0,80	11½ N	ε *Leonis.*
	0	3,0	10	1	18,7	2	28,8	18,79	1	0,25	½ S	*Regulus.*
	7	50,0	10	9	11,5	10	26,3	11,41	1	0,63	11½ N	ζ *Leonis.*
	11	15,0	10	12	34,0	13	47,0	34,07	1	0,17	8 N	γ *Leonis.*
25	10	52,6	2	12	8,8	13	19,0	14,02	1	0,61	- - -	⊙ 1 L.
	13	3,0	2	14	19,0	15	30,0					⊙ 2 L.
	-	-	9	3	58,0	5	31,0	57,91	1	+0,10	56 S	λ *Navis.*
	20	2,2	9	-	-	22	26,0	17,03	1	−0,65	21½ S	α *Hydræ.*
	-	-	9	38	7,8	39	23,0	7,83	1	0,10	11½ N	ε *Leonis.*
	-	-	10	9	10,5	10	26,0	10,68	1	0,65	11½ N	ζ *Leonis.*
	11	14,0	10	12	33,7	13	47,0	33,67	1	0,43	8 N	γ *Leonis.*
26	14	38,2	2	15	54,5	17	5,5	0,81	1	+0,69	- - -	⊙ 1 L.
	16	50,0	2	18	5,8	19	16,7					⊙ 2 L.
	2	17,3	9	3	57,3	5	30,4	57,55	1	−0,65	56 S	λ *Navis.*
	36	46,0	9	38	7,3	39	23,0	7,49	1	0,25	11½ N	ε *Leonis.*
	-	-	10	1	18,0	2	28,0	17,88	1	0,75	½ S	*Regulus.*
	7	0,0	10	8	42,3	10	16,7	41,85	..	. . .	30½ N	λ *Urs. Maj.*
	12	24,3	10	14	4,3	-	-	4,3	..	. . .	29½ N	μ *Urs. Maj.*
	EMERSION of JUPITER's *second* Satellite. Time by Clock (S.) 12h 39′ 42″,5. Mean Time 10h 18′ 42″,12. Planet high and clear: Observation good.											
27	18	24,0	2	19	40,0	20	50,8	45,95	1	+ 1,82	- - -	⊙ 1 L.
	20	35,0	2	21	52,0	23	2,0					⊙ 2 L.
28	22	10,0	2	23	27,0	-	-	32,60	1	−0,45	- - -	⊙ 1 L.
	-	-	2	25	38,2	-	-					⊙ 2 L.
	36	45,0	9	38	6,5	39	22,0	6,59	2	0,46	11½ N	ε *Leonis.*
	-	-	10	1	17,0	2	27,3	17,03	2	0,43	½ S	*Regulus.*
	6	58,7	10	8	41,0	10	16,2	40,97	2	0,51	30½ N	λ *Urs. Maj.*
	12	23,0	10	14	3,8	15	36,0	3,17	2	0,45	29½ N	μ *Urs. Maj.*
	-	-	11	2	0,0	3	38,0	- -	..	. . .	32½ N	ψ *Urs. Maj.*
29	25	57,2	2	27	14,3	28	25,0	19,93	1	0,27	- - -	⊙ 1 L.
	28	9,0	2	29	26,0	30	36,4					⊙ 2 L.
	-	-	10	1	17,0	2	27,2	16,98	1	0,05	½ S	*Regulus.*
	6	58,2	10	8	40,0	10	16,0	40,29	1	0,57	30½ N	λ *Urs. Maj.*
	12	23,0	10	14	3,0	15	35,6	2,89	1	0,40	29½ N	μ *Urs. Maj.*
	38	18,0	10	40	40,0	42	52,0	40,30	..	. . .	71½ S	Æ. *Rob. Carol.*
	-	-	11	2	0,4	3	38,0	0,4	1	+0,20	32½ N	ψ *Urs. Maj.*
30	29	45,0	2	31	2,3	32	13,3	7,95	1	−0,52	- - -	⊙ 1 L.
	31	56,0	2	33	13,0	34	25,0					⊙ 2 L.
	0	0,3	10	1	16,2	2	26,7	16,34	1	0,65	½ S	*Regulus.*
	6	58,0	10	8	40,8	10	16,0	40,81	1	0,20	30½ N	λ *Urs. Maj.*
	12	23,0	10	14	3,5	15	35,0	2,59	1	0,23	29½ N	μ *Urs. Maj.*

Wound up the Clock: Arc of Vibration 1°: 38′.

In the YEAR M.DCCCXVI.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	Names or Characters of the STARS AND PLANETS.
MAY 1	33	33,0	2	34	50,0	36	2,0	55,75	1	−0,70	. . .	⊙ 1 L.
	35	45,0	2	37	1,4	38	13,0					⊙ 2 L.
	36	44,3	9	38	6,0	-	-	6,0	3	0,20	11½ N	ε *Leonis.*
	0	0,0	10	1	16,3	2	26,0	16,02	1	0,30	½ S	*Regulus.*
	6	58,0	10	8	40,0	10	15,0	40,11	1	0,60	30½ N	λ *Urs. Maj.*
	12	23,0	10	-	-	15	35,2	3,08	1	0,30	29½ N	μ. *Urs. Maj.*
	38	17,0	10	40	39,0	42	51,0	39,15	. .	. . .	71¼ S	Æ *Rob. Carol.*
2	37	22,0	2	38	38,0	39	50,0	44,27	1	0,68	. . .	⊙ 1 L.
	39	33,0	2	40	59,0	42	1,5					⊙ 2 L.
	6	58,0	10	8	40,0	10	14,5	39,98	1	0,17	30½ N	λ *Urs. Maj.*
	12	22,5	10	14	3,0	15	35,0	3,32	1	+0,03	29½ N	μ. *Urs. Maj.*
	38	17,0	10	40	39,2	42	51,0	39,17	1	0,07	71¼ S	Æ *Rob. Carol.*

EMERSION of JUPITER's *first* Satellite.
Time by Clock (S.) 10h 58′ 40″. Mean Time 8h 14′ 24″,91.
Planet high and clear: Moonlight: Observation good.

3	41	10,5	2	42	28,0	43	39,0	39,60	1	−0,37	. . .	⊙ 1 L.
	43	23,0	2	44	39,0	45	51,0					⊙ 2 L.
	0	0,0	10	1	16,0	2	26,0	15,87	2	0,05	½ S	*Regulus.*
	-	-	10	8	39,0	10	14,2	39,2	1	0,05	30½ N	λ *Urs. Maj.*
	12	22,0	10	14	2,0	15	35,0	2,11	1	0,50	29½ N	μ. *Urs. Maj.*
	38	17,0	10	40	39,0	42	51,0	39,07	1	0,40	71¼ S	Æ. *Rob. Carol.*
	0	14,0	11	1	39,5	3	37,0	39,37	4	0,24	32½ N	↓ *Urs. Maj.*

EMERSION of JUPITER's *second* Satellite.
Time by Clock (S.) 15h 40′ 25″. Mean Time 12h 51′ 27″,35.
Planet high and clear: Observation good.

4	45	1,0	2	46	18,2	47	29,4	24,19	1	+0,29	. . .	⊙ 1 L.
	47	12,5	2	48	30,0	49	42,0					⊙ 2 L.
	36	43,5	9	38	5,9	39	20,0	5,08	3	−0,25	11½ N	ε *Leonis.*
	0	0,0	10	1	15,3	2	25,6	15,42	1	0,37	½ S	*Regulus.*
	12	22,3	10	14	2,2	15	34,2	2,47	1	0,10	29½ N	μ. *Urs. Maj.*
	38	16,6	10	40	38,8	42	50,7	38,80	1	0,30	71¼ S	Æ *Rob. Carol.*
	52	18,0	10	54	39,5	57	29,0	59,43	. .	. . .	49½ N	α *Urs. Maj.*
	-	-	11	1	59,2	3	36,4	59,3	1	0,45	32½ N	↓ *Urs. Maj.*
5	48	50,0	2	50	8,0	51	19,4	13,79	1	1,20	. . .	⊙ 1 L.
	51	3,0	2	52	19,5	53	31,7					⊙ 2 L.
	45	2,0	9	46	21,6	47	35,8	21,58	. .	. . .	6 N	☽ 1 L. 6h 50′ 30″,83 mean Time.
	59	59,7	10	1	15,0	2	23,0	15,05	1	0,40	½ S	*Regulus.*
	6	56,7	10	8	39,0	10	14,0	39,19	2	0,05	30½ N	λ *Urs. Maj.*
	12	21,6	10	14	1,3	15	34,0	1,41	1	0,60	29½ N	μ. *Urs. Maj.*
	38	16,0	10	40	38,7	42	50,0	38,15	1	0,47	71¼ S	Æ *Rob. Carol.*
	-	-	10	53	22,0	55	29,0	21,69	. .	. . .	44½ N	β *Urs. Maj.*
	-	-	11	1	59,0	3	36,0	59,0	1	0,30	32½ N	↓ *Urs. Maj.*
	5	59,0	11	7	16,4	8	28,0	16,21	. .	. . .	3½ N	θ *Leonis.*

A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.

6	52	42,0	2	53	59,2	55	10,3	5,18	1	−0,01	. . .	⊙ 1 L.
	54	54,0	2	56	11,4	57	23,0					⊙ 2 L.
	-	-	10	1	15,0	2	25,3	15,05	1	+0,15	½ S	*Regulus.*
	-	-	10	8	39,3	10	14,0	39,3	1	0,15	30½ N	λ *Urs. Maj.*
	12	21,0	10	14	1,2	15	34,0	1,21	1	−0,23	29½ N	μ. *Urs. Maj.*
	43	5,0	10	44	23,0	45	35,4	23,01	. .	. . .	¼ N	☽ 1 L. 7h 44′ 26″,50 mean Time.
	5	59,0	11	7	16,0	8	27,7	16,16	1	0,23	3¼ N	θ *Leonis.*

In the YEAR M.DCCCXVI.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days.	Rate of Clock.	Zenith Distance.	*Names* or *Characters* of the STARS AND PLANETS.
MAY 7	56	33,2	2	37	52,0	59	2,0					
	58	46,0	3	0	3,5	1	14,2	56,65	1	0,40	- - -	⊙ 1 L.
	59	59,7	10	1	15,0	2	25,0	15,05	1	0,15	¾ S	⊙ 2 L.
	6	56,5	10	8	39,2	10	14,0	89,08	1	0,05	30½ N	*Regulus.*
	12	21,4	10	14	1,0	15	33,7	1,13	1	0,03	29¼ N	λ *Urs. Maj.*
	38	15,0	10	40	38,0	42	50,0	37,82	2	0,28	71¼ S	μ *Urs. Maj.*
												Æ *Rob. Carol.*
8	0	25,2	3	1	43,0	2	55,0	49,32	1	+0,17	- - -	⊙ 1 L.
	2	38,0	3	3	56,0	5	7,5					⊙ 2 L.
	6	56,2	10	8	38,0	10	13,0	38,16	1	—0,83	30½ N	λ *Urs. Maj.*
	12	20,6	10	14	1,2	15	33,0	1,36	1	0,43	29¼ N	μ *Urs. Maj.*
	38	15,8	10	40	37,6	42	50,0	37,31	1	+0,13	71¼ S	Æ *Rob. Carol.*
	-	-	10	53	22,0	55	28,0	22,0	3	—0,17	44½ N	β *Urs. Maj.*
	0	13,0	11	1	58,0	3	36,0	58,11	3	0,17	32½ N	↓ *Urs. Maj.*
	5	59,9	11	7	16,2	8	27,2	16,14	2	0,10	3½ N	θ *Leonis.*
9	4	18,0	3	5	36,0	6	47,4	42,0	1	0,32	- - -	⊙ 1 L.
	6	30,0	3	7	48,0	9	0,4					⊙ 2 L.

EMERSION of JUPITER's *first* Satellite.
Time by Clock (S.) 13h 21′ 15″. Mean Time 10h 9′ 5″,44.
Planet very high and near the ☽ : Hazy atmosphere.

10	8	10,4	3	9	29,0	10	40,0	34,45	1	1,15	- - -	⊙ 1 L.
	10	23,0	3	11	41,5	12	53,2					⊙ 2 L.
11	12	4,4	3	-	-	14	34,4	28,27	1	0,28	- - -	⊙ 1 L
	14	17,0	3	15	35,0	16	46,0					⊙ 2 L.
12	15	59,0	3	17	16,8	18	29,2	23,41	1	+0,54	- - -	⊙ 1 L.
	18	12,0	3	19	30,0	20	42,2					⊙ 2 L.
	12	20,4	10	14	0,6	15	33,0	0,51	3	—0,08	29¾ N	μ *Urs. Maj.*
	41	4,2	11	42	20,8	43	32,0	20,34	..	...	2½ N	β *Leonis.*
13	19	53,8	3	21	12,2	22	24,3	18,51	1	0,20	- - -	⊙ 1 L.
	22	7,0	3	23	25,0	24	37,5					⊙ 2 L.
	-	-	10	53	20,5	55	27,2	20,5	5	0,23	44¼ N	β *Urs. Maj.*
	0	12,0	11	1	57,0	3	35,0	57,11	5	0,20	32½ N	↓ *Urs. Maj.*
	41	4,0	11	42	20,5	43	31,8	20,57	1	0,23	2½ N	β *Leonis.*
14	23	49,2	3	25	7,3	26	20,0	14,19	1	0,22	- - -	⊙ 1 L.
	26	2,4	3	27	21,0	28	34,0					⊙ 2 L.
	41	3,5	11	42	20,2	43	31,4	20,34	1	0,40	2½ N	β *Leonis.*
	-	-	11	46	47,0	48	46,0	47,22	..	...	41½ N	γ *Urs. Maj.*
15	27	45,0	3	29	3,8	30	15,3	10,94	1	0,55	- - -	⊙ 1 L.
	29	59,0	3	31	16,6	32	29,5					⊙ 2 L.
	-	-	10	43	12,8	44	23,6	12,8	..	...	28½ S	υ *Hydræ.*
	41	3,0	11	42	20,0	43	31,0	20,01	1	0,37	2½ N	β *Leonis.*
16	31	41,0	3	33	0,0	34	12,5	6,71	1	0,43	- - -	⊙ 1 L.
	33	55,0	3	35	14,0	36	26,4					⊙ 2 L.

Wound up the Clock: Arc of Vibration 1° : 37′.

	52	15,0	10	54	56,2	57	25,0	56,03	..	...	49¼ N	ε *Urs. Maj.*
	0	11,0	11	1	56,2	3	33,0	55,97	3	0,42	32½ N	↓ *Urs. Maj.*
	-	-	11	7	14,2	8	25,0	14,9	8	0,26	3¼ N	θ *Leonis.*

EMERSION of JUPITER's *first* Satellite.
Time by Clock (S.) 15h 42′ 25″. Mean Time 12h 2′ 22″,55.
Planet sufficiently high and clear, but the Wind strong, and the Telescope not steady.

In the YEAR M.DCCCXVI.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. R	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	Names or Characters of the STARS AND PLANETS.
MAY 17	35	38,7	3	36	57,2	38	10,0			—		
	37	52,5	3	39	11,2	40	24,0	4,16	1	0,15	- - -	☉ 1 L.
	41	55,6	10	43	12,0	44	23,0	11,98	2	0,35	28¼ S	☉ 2 L.
	52	14,5	10	54	56,2	57	25,0	55,90	1	0.17	49½ N	*γ Hydræ.*
	-	-	11	1	56,0	3	33,6	56,9	1	+0.20	32¾ N	*α Urs. Maj.*
	5	57,0	11	7	14,3	8	29,0	14,14	1	0,05	3¼ N	*ψ Urs. Maj.*
	41	2,6	11	-	-	43	30,0	19,33	2	—0,35	2¾ N	*β Leonis.*
	-	-	11	46	46,0	48	44,5	45,97	2	0,50	41¼ N	*γ Urs. Maj.*
18	39	36,2	3	40	55,0	42	8,0					
	41	51,0	3	43	9,0	44	22,2	2,13	1	0,33	- - -	☉ 1 L.
	-	-	10	40	35,0	42	46,7	34,91	2	0,45	71¼ S	☉ 2 L.
	0	10,0	11	1	55,6	3	33,2	55,46	1	0,40	32¾ N	*Æ Rob. Carol.*
	41	2,0	11	42	19,2	43	30,3	19,19	1	0,15	2¼ N	*ψ Urs. Maj.*
19	43	34,2	3	44	53,3	46	6,0					*β Leonis.*
	45	49,0	3	47	7,8	48	20,5	0,91	1	0,62	- - -	☉ 1 L.
	38	13,2	10	40	34,3	42	46,4	34,62	1	0,50	71¼ S	☉ 2 L.
	0	10,0	11	1	55,0	3	33,0	55.11	1	0,27	32¾ N	*Æ Rob. Carol.*
	41	2,0	11	42	19,2	43	29,6	19,01	1	0,23	2¼ N	*ψ Urs. Maj.*
	44	37,7	11	46	45,2	48	44,0	45,35	2	0,65	41¼ N	*β Leonis.*
												γ Urs. Maj.
	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.											
20	47	33,3	3	48	52,3	50	5,2			—		
	49	48,0	3	51	7,0	52	20,0	59,53	1	0,18	- - -	☉ 1 L.
	41	2,0	11	42	19,0	43	29,5	18,82	1	0,17	2¼ N	☉ 2 L.
	44	37,4	11	46	45,0	48	43,6	45,07	1	0,30	41¼ N	*β Leonis.*
	59	37,0	12	1	31,0	3	16,8	31,20	..	. . .	62½ S	*γ Urs. Maj.*
	-	-	12	9	0,2	10	11,2	0,02	..	. . .	29½ S	*δ Centauri.*
	16	28,8	12	19	6,4	21	32,8	6,07	..	. . .	74¼ S	*γ Corvi.*
												α Crucis.
21	51	33,0	3	52	52,3	54	5,5			—		
	53	48,0	3	55	7,2	56	20,0	59,50	1	0,0	- - -	☉ 1 L.
	41	2,0	11	42	18,2	43	29,4	18,34	1	0,28	2¼ N	☉ 2 L.
	59	36,4	12	1	31,0	3	16,5	30,95	1	0,30	62½ S	*β Leonis.*
	7	43,0	12	9	0,0	10	11,6	59,90	1	0,20	29½ S	*δ Centauri.*
	-	-	12	23	0,0	24	11,8	0,0	..	. . .	28¾ S	*γ Corvi.*
	26	3,0	12	27	23,3	28	37,0	23,09	..	. . .	35¾ S	*δ Corvi.*
	33	46,0	12	34	59,2	36	7,5	59,31	..	. . .	13¾ S	*β Corvi.*
												γ Virginis.
22	55	33,0	3	56	52,0	58	5,0					
	57	48,0	3	59	7,0	0	20,3	59,46	1	0,57	- - -	☉ 1 L.
	0	9,7	11	1	55,3	3	33,0	55.38	3	0,0	32¼ N	☉ 2 L.
	5	56,0	11	7	12,6	8	24,0	12,71	5	0,23	3¼ N	*ψ Urs. Maj.*
	-	-	11	46	45,0	48	43,8	45,12	1	+0,25	41¼ N	*θ Leonis.*
	-	-	12	1	31,0	3	16,0	30,79	1	—0,25	62½ S	*γ Urs. Maj.*
	7	43,2	12	8	59,7	10	10,8	59,75	1	0,23	29½ S	*δ Centauri.*
	16	28,0	12	19	6,0	-	-	5,75	2	0,30	74¼ S	*γ Corvi.*
	21	28,0	12	25	40,0	25	43,0	40,19	2	0,0	69¼ S	*α Crucis.*
												ε Crucis.
23	59	34,0	4	0	53,0	2	6,8					
	1	49,0	4	3	8,0	4	21,3	0,50	1	0,06	- - -	☉ 1 L.
	0	9,0	11	1	54,6	3	32,4	54,46	1	0,67	32¼ N	☉ 2 L.
	41	1,2	11	42	18,6	43	29,0	18,37	2	0,12	2¼ N	*ψ Urs. Maj.*
	44	37,2	11	46	45,0	48	43,0	44,87	1	0,40	41¼ N	*β Leonis.*
												γ Urs. Maj.
	EMERSION of JUPITER's *first* Satellite. Time by Clock (S.) 18h 5' 45",5. Mean Time 18h 57' 49",23. Planet low, but clear: the Wind high: Observation good.											
24	3	34,4	4	4	53.3	6	7.3			—		
	5	50,0	4	7	9,2	8	22,4	1,34	1	0,76	- - -	☉ 1 L.
												☉ 2 L.

In the YEAR M.DCCCXVI.

DAY of the MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names* or *Characters* of the STARS AND PLANETS.
MAY 24	44	37,0	11	46	44,2	48	42,5	44,30	1	0,50	41½ N	*γ Urs. Maj.*
	7	42,5	12	8	59,6	10	10,8	59,50	2	0,14	29½ S	*γ Corvi.*
25	7	36,0	4	8	55,5	10	9,4	3,16	1	0,38	- - -	⊙ 1 L.
	9	51,2	4	11	11,0	12	24,4					⊙ 2 L.
	41	0.5	11	42	17,0	43	28,4	17,24	2	0,48	2½ N	*β Leonis.*
	44	36,0	11	46	44,0	48	42,0	43,82	1	0,57	41½ N	*γ Urs. Maj.*
	7	42,0	12	8	59,0	10	10,0	58,92	1	0,63	29½ S	*γ Corvi.*
	21	42,6	12	22	59,0	24	10,0	59,05	5	0,24	28½ S	*δ Corvi.*
	26	2,0	12	27	22,0	28	36,0	21,99	5	0,22	35½ S	*β Corvi.*

EMERSION of JUPITER's *first* Satellite.
Time by Clock (S.) 12h 41′ 2″,3. Mean Time 8h 26′ 7″,63.
Planet high and clear: Observation good.

26	11	38,0	4	12	57,7	14	11,0	3,24	1	0,52	- - -	⊙ 1 L.
	13	54,0	4	15	13,0	16	26,4					⊙ 2 L.
	41	0,0	11	42	17,0	43	28,0	16,87	1	0,30	2½ N	*β Leonis.*
	7	41,8	12	8	58,6	10	10,0	58,65	1	0,20	29½ S	*γ Corvi.*
	21	42,2	12	22	58,8	24	9,6	58,75	1	0,33	28½ S	*δ Corvi.*
	26	1,7	12	27	22,0	28	36,0	21,92	1	0,10	35½ S	*β Corvi.*
27	15	40.0	4	16	59,6	18	13,4	7,49	1	0,95	- - -	⊙ 1 L.
	17	56,2	4	19	15,2	20	29,0					⊙ 2 L.
	41	0,0	11	42	16,7	43	27,7	16,78	1	0,20	2½ N	*β Leonis.*
	44	35,0	11	46	42,6	48	41,2	42,67	2	0,55	41½ N	*γ Urs. Maj.*
	16	26,6	12	19	4,0	21	30,0	3,75	5	0.34	74½ S	*α Crucis.*
	26	1,0	12	-	-	28	35,2	21,09	1	0.75	35½ S	*β Corvi.*
	33	49,2	12	34	57,0	36	5,0	56,88	6	0.42	13½ S	*γ Virginis.*
28	19	43,0	4	21	3,0	22	16,2	10,50	1	0,59	- - -	⊙ 1 L.
	21	59,0	4	23	18,0	24	32,3					⊙ 2 L.
	7	41,0	12	8	57,3	10	9,0	57,55	2	0,68	29½ S	*γ Corvi.*
	21	41,0	12	22	57,4	24	8,8	57,55	2	0.56	28½ S	*δ Corvi.*
	-	-	12	27	20,8	28	35,0	20,8	1	0,20	35½ S	*β Corvi.*

EMERSION of JUPITER's *second* Satellite.
Time by Clock (S.) 14h 20′ 48″,5. Mean Time 9h 53′ 51″,93.
Planet near the Zenith: Clear: Observation good.

29	23	46,2	4	25	6,0	26	20,0	13,95	1	0,55	- - -	⊙ 1 L.
	26	2,0	4	27	22,0	28	36,0					⊙ 2 L.
	-	-	11	42	15,0	43	26,0	15,0	2	0,85	2½ N	*β Leonis.*
	44	34,7	11	46	41,0	48	40,0	41,22	2	0,51	41½ N	*γ Urs. Maj.*
	7	40,4	12	8	57,0	10	8,7	57,17	1	0,40	29½ S	*γ Corvi.*
	21	40,6	12	22	57,0	24	8,7	57,17	1	0,37	28½ S	*δ Corvi.*
	26	0,0	12	27	20,0	28	34,2	20,04	1	0,80	35½ S	*β Corvi.*
30	27	50,0	4	29	10,0	30	24,3	18,10	1	0,35	- - -	⊙ 1 L.
	30	6,0	4	31	26,3	32	39,4					⊙ 2 L.
	40	58,6	11	42	15,0	43	26,0	15,09	1	0,0	2½ N	*β Leonis.*
	-	-	11	46	41,7	48	39,8	41,47	1	0,45	41½ N	*γ Urs. Maj.*
	7	40,0	12	8	56,4	10	8,0	56.60	1	0,57	29½ S	*γ Corvi.*
	21	40,0	12	22	57,0	24	8,0	56.90	1	0,37	28½ S	*δ Corvi.*
	26	0,0	12	27	19,8	28	33,7	19,82	1	0,23	35½ S	*β Corvi.*
	33	42,0	12	34	56,0	36	4,0	55,84	3	0,31	13½ S	*γ Virginis.*
31	31	54,4	4	33	14,0	34	28,0	22,13	1	0,67	- - -	⊙ 1 L.
	34	10,3	4	35	30,0	36	44,5					⊙ 2 L.
	44	33,2	11	46	41,0	48	39,6	41,02	1	0,45	41½ N	*γ Urs. Maj.*
	21	39,8	12	22	56.5	24	7,2	56,30	1	0,57	28½ S	*δ Corvi.*
	25	59,6	12	27	19,0	28	33,2	19.19	1	0,57	35½ S	*β Corvi.*
	-	-	12	34	55,6	36	4,0	55,8	1	0,20	13½ S	*γ Virginis.*

In the YEAR M.DCCCXVI.

DAY OF THE MONTH.	I. Wire. M S	MERIDIAN. H M S	II. Wire. M S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
JUNE 1	35 59,5	4 37 19,0	38 33,2	27,28	1	0,05	- - -	☉ 1 L.
	38 16,3	4 39 35,5	40 49,2					☉ 2 L.
	7 38,8	12 8 55,2	10 6,8	55,46	2	0,60	29¼ S	*γ Corvi.*
	21 39,0	12 22 56,0	24 7,0	55,96	1	0,43	28½ S	*δ Corvi.*
	25 59,0	12 27 19,0	28 33,0	19,02	1	0,23	35½ S	*β Corvi.*
	33 41,0	12 34 55,0	36 3,5	55,03	1	0,55	13¾ S	*γ Virginis.*
	16 50,4	13 18 5,0	- -	5,05	..	- - -	23¼ S	*Spicæ Virg.*
	Wound up the Clock : Arc of Vibration 1° : 38'.							
	EMERSION of JUPITER's *first* Satellite. Time by Clock (S.) 15h 3' 10'. Mean Time 10h 20' 24',60. Planet high and clear: Observation good.							
2	40 4,4	4 41 24,0	42 38,0	32,31	1	0,77	- - -	☉ 1 L.
	42 20,2	4 43 40,4	44 55,0					☉ 2 L.
	25 58,2	12 27 18,0	28 32,0	18,07	1	0,93	35½ S	*β Corvi.*
	33 40,3	12 34 54,4	36 3,0	54,43	1	0,60	13½ S	*γ Virginis.*
	46 13,0	12 48 28,6	50 34,0	28,08	..	- - -	44 N	*ε Urs. Maj.*
	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.							
3	44 9,0	4 45 30,2	46 44,3	38,40	1	0,01	- - -	☉ 1 L.
	46 26,0	4 47 46,2	49 1,0					☉ 2 L.
	44 32,2	11 46 40,0	48 38,3	40,01	3	0,87	41½ N	*γ Urs. Maj.*
	7 38,0	12 8 55,0	10 6,2	55,01	2	0,26	29¼ S	*γ Corvi.*
	16 50,0	13 18 4,2	19 14,0	4,52	2	0,90	23¼ S	*Spicæ Virg.*
4	48 15,0	4 49 35,7	50 50,0	43,99	1	0,81	- - -	☉ 1 L.
	50 32,0	4 51 52,2	53 7,0					☉ 2 L.
	15 20,0	12 16 35,2	- -	35,2	..	...	9¾ S	☽ 1 L. 7h 22' 30',63 mean Time.
	33 40,0	12 34 54,0	36 2,5	54,03	2	0,40	13¾ S	*γ Virginis.*
5	- -	4 53 41,0	- -	49,9	1	0,79	- - -	☉ 1 L.
	54 38,0	4 55 58,8	57 13,0					☉ 2 L.
	- -	12 8 54,0	10 5,5	54,15	2	0,43	29¼ S	*γ Corvi.*
	21 38,0	12 22 54,5	24 6,0	54,70	4	0,28	28½ S	*δ Corvi.*
	25 57,7	12 27 17,0	28 31,0	17,19	3	0,28	35½ S	*β Corvi.*
	33 40,0	12 34 53,3	- -	53,1	1	0,35	13¾ S	*γ Virginis.*
	46 12,0	12 48 28,0	50 33,0	28,27	3	0,26	44 N	*ε Urs. Maj.*
	8 46,4	13 10 1,3	11 11,0	1,34	..	...	15¼ S	☽ 1 L. 8h 12' 2',85 mean Time.
	16 49,0	13 18 4,3	19 13,2	4,12	2	0,26	23¼ S	*Spicæ Virg.*
6	56 28,8	4 57 49,0	59 3,0	57,24	1	+0,24	- - -	☉ 1 L.
	58 45,0	5 0 5,5	1 20,0					☉ 2 L.
	7 37,0	12 8 54,0	10 5,0	53,96	3	−0,35	29¼ S	*γ Corvi.*
	25 57,4	12 27 17,0	28 31,2	17,17	1	0,03	35½ S	*β Corvi.*
	33 39,5	12 34 53,0	36 1,5	52,90	1	0,40	13¾ S	*γ Virginis.*
	- -	12 48 27,4	50 32,3	27,4	1	0,65	44 N	*ε Urs. Maj.*
7	0 35,5	5 1 55,5	3 10,0	5,72	1	0,82	- - -	☉ 1 L.
	2 51,2	5 4 12,0	5 26,0					☉ 2 L.
	Cloudy at Night.							
8	4 42,0	5 6 2,0	7 17,0	10,84	1	0,48	- - -	☉ 1 L.
	6 59,0	5 8 19,3	9 34,0					☉ 2 L.
	7 36,0	12 8 53,0	10 4,0	52,96	2	0,50	29¼ S	*γ Corvi.*
	21 36,7	12 22 53,0	24 4,0	53,13	3	0,53	28½ S	*δ Corvi.*
	25 56,6	12 27 16,2	28 30,0	16,27	2	0,46	35½ S	*β Corvi.*
	33 38,0	12 34 52,3	36 0,0	52,05	2	0,61	13¾ S	*γ Virginis.*
	46 10,7	12 48 26,6	50 31,8	26,18	2	0,33	44 N	*ε Urs. Maj.*
	16 48,0	13 18 2,8	19 12,2	2,87	3	0,37	23¼ S	*Spicæ Virg.*

In the YEAR M.DCCCXVI.

DAY OF THE MONTH.	I. Wire. MERIDIAN. M S	H M S	III. Wire. M S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
JUNE 8	EMERSION of JUPITER's *first* Satellite. Time by Clock (S.) 17h 26′ 9″,0. Mean Time 12h 15′ 31″,77. Planet high and clear, but bright Moonlight: Observation good.							
9	8 49,0	5 10 10,2	11 25,0	18,86	1	+ 0,12	- - -	☉ 1 L.
	11 6,6	5 12 27,4	13 42,2					☉ 2 L.
	21 36,3	12 22 52,8	24 3,8	52,88	1	—0,27	28½ S	δ *Corvi.*
	25 56,0	12 27 16,0	28 29,8	15,97	1	0,33	35½ S	β *Corvi.*
	33 37,6	12 34 52,0	36 0,0	51,80	1	0,23	13½ S	γ *Virginis.*
	46 10,0	12 48 26,0	50 31,0	26,28	1	0,70	44 N	ε *Urs. Maj.*
	LUNAR ECLIPSE.							
						Time by Clock.		*Apparent Time.*
	Penumbra visible on the ☽					21h 48′ 0″		16h 33′ 50″,03
	Beginning of the Eclipse					22 4 50		50 37,05
	Grimaldus covered					9 32		55 18,34
	Aristarchus do.					10 38		56 44,08
	Keplerus do.					13 20		59 5,67
	Copernicus do.					21 30		17 7 14,28
	Tycho do.					31 38		17 20,53
	The ☽ low and rather tremulous: the Observations also, taken during twilight: the remaining part of the Eclipse, not visible—*the* ☽ having set.							
10	12 57,7	5 14 17,0	15 32,2	25,96	1	+ 0,28	- - -	☉ 1 L.
	15 14,0	5 16 34,5	17 49,0					☉ 2 L.
	21 36,0	12 - -	24 3,0	49,05	1	—0,55	28½ S	δ *Corvi.*
	25 56,0	12 27 15,2	28 29,3	15,44	1	0,43	35½ S	β *Corvi.*
	33 37,3	12 34 51,8	35 59,6	51,53	1	0,30	13½ S	γ *Virginis.*
	46 10,0	12 48 25,3	50 30,6	25,06	1	0,37	44 N	ε *Urs. Maj.*
11	17 5,0	5 18 26,0	19 40,5	34,44	1	+0,08	- - -	☉ 1 L.
	19 24,2	5 20 43,0	21 57,5					☉ 2 L.
	33 37,0	12 34 51,6	35 59,2	51,25	1	—0,30	13½ S	γ *Virginis.*
	46 9,6	12 48 24,8	50 30,0	24,57	1	0,50	44 N	ε *Urs. Maj.*
	16 46,6	13 18 2,0	19 11,0	1,81	1	0,13	23½ S	*Spicæ Virginis.*
	28 48,2	13 30 49,0	32 41,5	49,21	..	...	65½ S	ε *Centauri.*
	40 52,2	13 42 48,4	44 35,0	48,19	..	...	37½ N	η *Urs. Maj.*
	47 8,0	13 48 26,4	49 38,3	26,27	..	...	6½ N	η *Bootis.*
12	21 13,0	5 22 33,0	23 48,0	41,87	1	0,97	- - -	☉ 1 L.
	23 30,0	5 24 50,4	26 6,0					☉ 2 L.
	33 36,7	12 34 51,0	35 59,0	50,83	1	0,37	13½ S	γ *Virginis.*
	46 9,2	12 48 24,2	50 29,4	24,04	1	0,53	44 N	ε *Urs. Maj.*
	40 52,2	13 42 47,0	44 34,0	47,24	1	0,73	37½ N	η *Urs. Maj.*
	47 7,3	13 48 25,0	49 38,0	25,32	1	0,66	6½ N	η *Bootis.*
	- -	13 58 8,0	59 17,2	7,87	..	...	23½ S	γ *Centrum.* 8h 32′ 22″,87 mean Time.
13	- -	5 26 42,0	- -	50,60	1	+0,03	- - -	☉ 1 L.
	- -	5 28 59,2	30 14,2					☉ 2 L.
	33 36,0	12 - -	35 58,2	49,91	1	—0,75	13½ S	γ *Virginis.*
	48 18,4	12 49 54,0	51 22,2	53,65	..	...	20½ N	*Cor. Carol.*
	16 45,6	13 18 0,0	19 10,0	0,32	2	0,66	23½ S	*Spicæ Virginis.*
	28 46,3	13 30 48,0	32 40,0	47,87	2	0,73	65½ S	ε *Centauri.*
	40 52,5	13 42 47,2	44 34,3	47,49	1	+0,23	37½ N	η *Urs. Maj.*
	47 7,3	13 48 25,7	49 38,0	25,64	1	0,23	6½ N	η *Bootis.*
	8 28,0	14 9 46,8	10 58,7	46,57	1	—0,17	7½ N	*Arcturus.*
14	29 30,0	5 30 50,3	32 5,2	59,17	1	0,43	- - -	☉ 1 L.
	31 47,0	5 33 9,2	34 23,0					☉ 2 L.
	48 18,0	12 49 53,7	51 22,0	53,35	1	0,30	20½ N	*Cor. Carol.*
	- -	13 11 26,0	12 40,0	26,17	..	..	35½ S	γ *Hydræ.*
	28 46,0	13 30 48,0	32 40,0	47,80	1	0,10	65½ S	ε *Centauri.*
	- -	13 42 47,0	44 34,0	47,0	1	0,25	37½ N	η *Urs. Maj.*

In the YEAR M.DCCCXVI.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
JUNE 14	47	7,0	13	-	-	49	38,0	25,04	1	$\overline{}$0,10	6½ N	*η Bootis.*
	56	33,0	13	57	47,8	58	57,7	47,89	..	..	23½ S	*χ Centurum.* 8h 24′ 11″,33 mean Time.
15	33	39,0	5	34	59,5	36	15,0	8,19	1	0,08	- - -	⊙ 1 L.
	35	56,0	5	37	17,2	38	32,0					⊙ 2 L.
	48	18,0	12	49	53,2	51	21,7	58,02	1	0,27	26½ N	*Cor. Carol.*
	10	6,0	13	11	26,0	12	39,8	25,97	1	0,10	35½ S	*χ Hydræ.*
	16	45,0	13	17	59,8	19	9,5	59,95	1	0,23	23½ S	*Spicæ Virginis.*
	40	51,0	13	42	46,2	44	33,3	46,37	1	0,75	37½ N	*η Urs. Maj.*
	47	6,6	13	48	24,5	49	37,6	24,79	1	0,4	6½ N	*η Bootis.*
	56	24,0	13	57	39,0	58	48,2	38,87	..	- - -	23½ S	*χ Centrum.* 8h 20′ 5″,25 mean Time.
	8	26,7	14	9	45,6	-	-	45,46	2	0,63	7½ N	*Arcturus.*
	Wound up the Clock: Arc of Vibration 1°: 38′.											
16	10	6,0	13	11	25,2	12	39,8	25,57	1	$\overline{}$0,23	35½ S	*γ Hydræ.*
	16	45,0	13	17	59,7	19	9,3	59,85	1	0,10	23½ S	*Spicæ Virginis.*
	28	45,8	13	30	47,7	32	40,0	47,60	2	0,08	65½ S	*ε Centauri.*
	47	6,3	13	48	24,8	49	37,0	24,71	1	0,20	6½ N	*η Bootis.*
	56	15,8	13	57	31,0	58	40,0	30,77	..	- - -	23½ S	*χ Centrum.* 8h 16′ 2″,40 mean Time.
	8	27,0	14	9	45,6	-	-	45,61	1	0,15	7½ N	*Arcturus.*
	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.											
17	16	45,0	13	17	59,6	19	9,4	59,67	1	$\overline{}$0,07	23½ S	*Spicæ Virginis.*
	40	50,5	13	42	46,0	44	33,0	46,07	2	0,33	37½ N	*η Urs. Maj.*
	47	6,0	13	48	24,3	49	37,0	24,17	1	0,27	6½ N	*η Bootis.*
	56	8,0	13	57	23,0	-	-	22,86	..	- - -	23½ S	*χ Centrum.* 8h 11′ 58″,58 mean Time.
	8	27,0	14	9	45,0	10	58,0	45,02	1	0,30	7½ N	*Arcturus.*
	EMERSION of JUPITER'S *first* Satellite. Time by Clock (S.) 14h 25′ 1″,5. Mean Time 8h 39′ 33″,15. Planet near the Zenith, but rather hazy: Observation otherwise good.											
18	46	6,4	5	47	27,0	48	41,5	35,91	3	$\overline{}$0,16	- - -	⊙ 1 L.
	48	24,0	5	49	45,0	50	59,3					⊙ 2 L.
	Cloudy at Night.											
19	50	15,0	5	51	36,0	52	50,0	44,39	1	1,02	- - -	⊙ 1 L.
	52	33,0	5	53	53,4	55	8,0					⊙ 2 L.
	47	6,0	13	48	24,3	49	36,3	24,22	2	0,12	6½ N	*η Bootis.*
	55	55,0	13	57	9,5	58	19,0	9,56	..	- - -	23½ S	*χ Centrum.* 8h 3′ 55″,12 mean Time.
	8	27,2	14	9	45,0	10	58,2	45,03	2	+0,13	7½ N	*Arcturus.*
20	54	24,0	5	55	45,0	56	59,5	53,43	1	−0,56	- - -	⊙ 1 L.
	56	42,2	5	58	2,0	59	17,4					⊙ 2 L.
	55	48,0	13	57	3,0	58	13,5	3,14	..	- - -	23½ S	*χ Centrum.* 7h 59′ 53″,40 mean Time.
21	58	33,0	5	59	54,5	1	9,0	2,92	1	+0,03	- - -	⊙ 1 L.
	0	51,2	6	2	12,0	3	25,0					⊙ 2 L.
22	2	42,4	6	4	3,0	5	18,5	12,05	1	−0,57	- - -	⊙ 1 L.
	5	0,0	6	6	20,7	7	36,0					⊙ 2 L.
	47	4,0	13	48	22,2	49	35,0	22,12	3	0,60	6½ N	*η Bootis.*
	55	39,0	13	56	51,2	-	-	53,96	..	- - -	23½ S	*χ Centrum.* 7h 51′ 53″,11 mean Time.
	8	25,0	14	9	43,0	10	56,2	43,29	3	0,69	7½ N	*Arcturus.*
	25	32,0	14	27	7,0	28	35,0	6,84	..	- - -	26½ N	*γ Bootis.*
23	6	52,0	6	8	12,0	9	28,0	21,05	1	0,60	- - -	⊙ 1 L.
	9	9,0	6	10	30,0	11	45,2					⊙ 2 L.
	47	3,8	13	48	22,2	49	34,2	22,14	1	0,33	6½ N	*η Bootis.*

In the YEAR M.DCCCXVI.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
JUNE 23	8	24,4	14	9	42,7	10	56,0	42,82	1	0,37	7½ N	*Arcturus.*
	25	32,0	14	27	6,8	28	34,8	6,92	..	...	26½ N	*γ Bootis.*
24	11	1,2	6	12	21,5	13	36,0	30,05	1	0,50	- - -	⊙ 1 L.
	13	18,0	6	14	40,0	15	54,0					⊙ 2 L.
	10	2,3	13	11	22,0	12	36,0	22,09	8	0,45	35½ S	*γ Hydræ.*
	40	47,0	13	42	43,0	44	29,7	42,84	7	0,47	37½ N	*η Urs. Maj.*
	47	3,0	13	48	21,2	49	34,0	21,11	1	0,40	6½ N	*η Bootis.*
	55	32,0	13	56	47,0	57	56,0	46,81	..	...	23½ S	*♃ Centrum.* 7h 43′ 55″,25 mean Time.
	-	-	14	27	6,0	28	34,0	6,0	1	0,80	26½ N	*γ Bootis.*
	37	59,7	14	39	23,0	40	40,5	23,14	2	0,60	15 N	*ε Bootis.*
	EMERSION of JUPITER's *first* Satellite. Time by Clock (S.) 16h 46′ 40″. Mean Time 10h 33′ 20″,55. Planet high and clear: Observation good.											
25	15	10,0	6	16	30,0	17	45,0	39,26	1	0,29	- - -	⊙ 1 L.
	17	27,0	6	18	48,4	20	3,2					⊙ 2 L.
	16	41,4	13	17	56,0	19	5,5	56,15	1	0,30	23½ S	*Spicæ Virginis.*
	28	42,0	13	30	43,0	32	36,0	43,50	9	0,46	65½ S	*ε Centauri.*
	47	3,0	13	-	-	49	33,4	21,19	1	0,30	6½ N	*η Bootis.*
	55	29,0	13	56	44,5	57	54,0	44,32	..	...	23½ S	*♃ Centrum.* 7h 39′ 57″,04 mean Time.
	8	23,0	14	9	42,0	10	55,0	41,99	1	0,37	7½ N	*Arcturus.*
	37	59,0	14	39	23,2	40	40,2	22,99	1	0,27	15 N	*ε Bootis.*
26	19	18,8	6	20	39,8	21	54,3	48,44	1	0,30	- - -	⊙ 1 L.
	-	-	6	22	57,0	24	12,2					⊙ 2 L.
	28	42,0	13	30	43,0	32	36,0	43,30	1	0,0	65½ S	*ε Centauri.*
	40	46,2	13	42	41,8	44	28,8	41,64	2	0,48	37½ N	*η Urs. Maj.*
	47	2,0	13	48	20,0	49	33,0	20,02	1	0,70	6½ N	*η Bootis.*
	-	-	13	58	19,0	59	43,0	19,15	..	...	48½ S	*θ Centauri.*
	8	23,0	14	9	42,0	-	-	41,81	1	0, 0	7½ N	*Arcturus.*
	27	9,5	14	-	-	31	54,0	34,77	1	0,25	73½ S	*α Centauri.*
	37	59,2	14	39	22,6	40	40,0	22,69	1	0,27	15 N	*ε Bootis.*
27	23	28,0	6	24	48,7	26	3,0	57,50	1	0,14	- - -	⊙ 1 L.
	25	45,0	6	27	5,2	28	21,0					⊙ 2 L.
	-	-	13	30	43,0	32	35,3	43,0	1	0,35	65½ S	*ε Centauri.*
	56	48,0	13	58	18,8	59	42,5	18,75	1	0,40	48½ S	*θ Centauri.*
	37	59,0	14	39	22,0	40	39,5	22,21	1	0,23	15 N	*ε Bootis.*
	41	52,0	14	43	8,0	44	19,0	7,98	..	...	28½ S	*α Libræ.*
28	27	36,3	6	28	57,2	30	11,5	5,85	1	0,65	- - -	⊙ 1 L.
	29	53,4	6	31	15,0	32	29,4					⊙ 2 L.
	40	45,5	13	42	41,0	44	28,3	41,14	3	0,34	37½ N	*η Urs. Maj.*
	47	1,7	13	48	19,4	49	32,2	19,64	2	0,28	6½ N	*η Bootis.*
	56	47,2	13	58	18,2	59	42,0	18,12	1	0,63	48½ S	*θ Centauri.*
	-	-	14	9	41,0	10	54,0	41,0	2	0,50	7½ N	*Arcturus.*
	25	29,0	14	27	4,5	28	33,0	4,57	4	0,31	26½ N	*γ Bootis.*
	37	58,3	14	39	21,4	40	39,0	21,61	1	0,60	15½ N	*ε Bootis.*
	41	51,2	14	43	7,8	44	19,0	7,90	1	0,33	28½ S	*α Libræ.*
29	31	44,7	6	33	5,4	34	20,5	14,04	1	0,61	- - -	⊙ 1 L.
	34	2,5	6	35	22,3	36	38,0					⊙ 2 L.
	EMERSION of JUPITER's *second* Satellite. Time by Clock (S.) 16h 9′ 42″,0. Mean Time 9h 36′ 50″,98. Planet sufficiently high and clear: Observation good.											
30	35	53,0	6	37	14,0	38	29,0	22,74	1	+0,10	- - -	⊙ 1 L.
	38	12,0	6	39	31,2	40	46,3					⊙ 2 L.

A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.

In the YEAR M.DCCCXVI.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
JULY 1	40	1,0	6	41	20,6	42	37,0	30,56	1	0,68	- - -	☉ 1 L.
	42	18,2	6	43	39,0	44	54,0					☉ 2 L.
2	44	9,0	6	45	29,7	46	44,0	38,11	1	0,25	- - -	☉ 1 L.
	46	26,2	6	47	47,0	49	1,5					☉ 2 L.
	Wound up the Clock: Arc of Vibration 1°: 38'.											
3	48	16,0	6	49	37,0	50	51,2	43,17	1	0,74	- - -	☉ 1 L.
	50	33,2	6	51	54,0	53	8,4					☉ 2 L.
	45	12,0	13	46	27,8	47	38,2	27,75	..	...	20 S	☽ 1 L. 6h 58' 18",63 mean Time.
4	Cloudy at Noon.											
	38	55,5	14	40	13,5	41	25,2	13,30	..	...	25½ S	☽ 1 L. 7h 47' 59",90 mean Time.
5	56	30,5	6	57	51,0	59	5,5					
	58	47,4	7	0	8,4	1	22,2	59,37	2	0,15	- - -	☉ 1 L.
	-	-	15	35	41,0	36	53,0	41,0	..	...	32½ S	☉ 2 L.
												☽ 1 L. 8h 39' 22",92 mean Time.
6	0	37,2	7	1	57,3	3	11,6					☉ 1 L.
	2	54,0	7	4	14,0	5	28,4	5,66	1	0,51	- - -	☉ 2 L.
	37	55,0	14	39	18,0	40	35,6	18,11	8	0,42	15½ N	ε *Bootis.*
	41	48,0	14	43	4,4	44	15,0	4,29	8	0,44	28½ S	α *Libræ.*
7	4	43,4	7	6	3,3	7	18,0					☉ 1 L.
	7	0,0	7	8	20,3	9	31,4	11,77	1	0,19	- - -	☉ 2 L.
	25	25,0	14	27	0,8	28	29,0	0,62	9	0,43	26½ N	γ *Bootis.*
	41	47,3	14	43	4,0	44	15,0	3,91	1	0,37	28½ S	α *Libræ.*
	-	-	14	57	22,2	58	52,8	22,06	..	...	28 N	β *Bootis.*
	8	13,0	15	9	28,2	10	37,2	27,96	..	...	22 S	β *Libræ.*
	27	52,3	15	29	15,6	30	31,0	15,31	..	...	14½ N	α *Coron. Bor.*
8	8	49,0	7	10	10,0	11	23,4	17,45	1	0,32	- - -	☉ 1 L.
	11	5,6	7	12	25,5	13	40,0					☉ 2 L.
	Cloudy at Night.											
9	12	54,4	7	14	15,2	15	28,8	22,55	1	0,50	- - -	☉ 1 L.
	15	11,3	7	16	31,2	17	45,0					☉ 2 L.
	Cloudy at Night.											
10	17	0,2	7	18	20,0	19	34,0	28,0	1	+0,25	- - -	☉ 1 L.
	19	16,0	7	20	36,0	21	50,6					☉ 2 L.
	Cloudy at Night.											
11	21	4,0	7	22	23,3	23	36,6	31,22	1	−1,48	- - -	☉ 1 L.
	23	20,0	7	24	39,3	25	53,0					☉ 2 L.
	Cloudy at Night.											
12	Cloudy.											
13	-	-	7	30	33,2	31	46,0	40,55	1	+0,51	- - -	☉ 1 L.
	31	29,0	7	32	48,4	34	2,0					☉ 2 L.
	37	53,0	14	39	16,2	40	33,5	16,19	6	−0,25	15½ N	ε *Bootis.*
	41	46,0	14	43	2,0	44	13,6	2,24	6	0,26	28½ S	α *Libræ.*
	55	42,0	14	57	20,0	58	51,0	19,97	6	0,33	28 N	β *Bootis.*
	8	12,0	15	9	26,2	10	36,0	26,41	6	0,23	22 S	β *Libræ.*
	21	9,0	15	22	34,0	23	53,0	33,95	6	0,20	17 N	β *Coron. Bor.*
	27	50,0	15	29	13,0	30	30,0	12,95	6	0,35	14½ N	α *Coron. Bor.*
14	33	16,2	7	34	35,6	35	49,8	43,7	1	0,25	- - -	☉ 1 L.
	35	32,0	7	36	52,0	38	5,4					☉ 2 L.
	Cloudy at Night.											
15	37	18,6	7	38	38,2	39	52,0	46,05	1	0,65	- - -	☉ 1 L.
	39	34,2	7	40	53,3	42	8,8					☉ 2 L.
	Cloudy at Night.											

In the YEAR M.DCCCXVI.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names* or *Characters* of the STARS AND PLANETS.
JULY 16	41	21,6	7	2	39,2							☉ 1 L.
			7									☉ 2 L.
	Wound up the Clock: Arc of Vibration 1°: 38′.											
17			7			47	55,0					☉ 1 L.
	47	35,0	7									☉ 2 L.
	Cloudy at Night.											
18	49	24,2	7	50	44,0	51	57,4	51,20	3	−0,75		☉ 1 L.
	51	39,2	7	52	59,0	54	12,2					☉ 2 L.
	8	10,0	15	9	24,3	10	34,5	24,53	5	0,33	22 S	β *Libræ.*
	27	48,2	15	29	11,4	30	28,7	11,25	5	0,35	14½ N	α *Coron. Bor.*
			15	37	30,0	38	39,2	30,18	..		6½ S	α *Serpentis.*
	44	22,0	15	45	39,2	46	50,5	39,02	..		29½ S	θ *Scorpionis.*
	48	40,0	15	50	2,0	51	18,0	1,93	..		58½ S	π *Scorpionis.*
	5	46,0	16	7	0,0	8	8,2	59,84	..		16½ S	δ *Ophiuchi.*
	9	39,0	16	10	53,0	12	2,1	53,04	..		17½ S	ε *Ophiuchi.*
19	Cloudy.											
20	57	25,0	7	58	45,0	59	58,0	51,87	2	−0,37		☉ 1 L.
	59	40,2	8	0	50,0	2	13,0					☉ 2 L.
	Cloudy at Night.											
21	1	25,0	8	2	44,4	3	59,0	52,10	1	+0,23		☉ 1 L.
	3	40,0	8	4	59,5	6	12,2					☉ 2 L.
	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.											
23	9	23,2	8	10	42,0	11	55,0	49,19	1	0,56		☉ 1 L.
	11	37,5	8	12	56,5	14	10,6					☉ 2 L.
			15	45	37,0	46	48,0	36,70	5	0,45	29½ S	θ *Scorpionis.*
	48	38,0	15	50	0,0	51	15,0	59,66	5	0,47	38½ S	π *Scorpionis.*
	55	42,3	15	57	1,0	58	13,0	0,69	5	0,39	32½ S	β *Scorpionis.*
	5	44,0	16	6	58,2	8	6,2	57,94	5	0,39	16½ S	δ *Ophiuchi.*
	9	37,0	16	10	51,0	11	59,4	50,89	5	0,44	17½ S	ε *Ophiuchi.*
24	13	22,0	8	14	40,0	15	53,0	47,39	1	0,0		☉ 1 L.
	15	36,2	8	16	54,2	18	8,0					☉ 2 L.
	27	46,0	15	29	9,0	30	25,2	8,75	6	0,42	14½ N	α *Coron. Bor.*
	36	13,0	15	37	26,5	38	37,0	26,61	6	0,47	6½ S	α *Serpentis.*
	44	20,3	15	45	37,2	46	48,2	37,08	1	0,20	29½ S	θ *Scorpionis.*
	48	38,0	15	49	59,5	51	15,0	59,43	1	+0,17	38½ S	π *Scorpionis.*
	55	42,0	15	57	0,2	58	12,8	0,17	1	−0,43	32½ S	β *Scorpionis.*
	5	43,3	16	6	57,4	8	6,0	57,32	1	0,57	16½ S	δ *Ophiuchi.*
	9	36,3	16	10	50,3	11	59,0	50,26	1	0,60	17½ S	ε *Ophiuchi.*
25	17	19,0	8	18	38,2	19	51,0	44,79	1	0,30		☉ 1 L.
	19	33,0	8	20	51,6	22	5,0					☉ 2 L.
	27	45,0	15	29	8,0	30	25,0	7,95	1	0,73	14½ N	α *Coron. Bor.*
	36	12,0	15	37	26,4	38	36,0	26,50	1	0,70	7½ S	α *Serpentis.*
	42	39,0	15	43	53,3	45	2,0	53,20	..		8½ S	ε *Serpentis.*
	55	41,2	15	56	59,5	58	12,0	59,42	1	0,77	32½ S	β *Scorpionis.*
	5	42,7	16	6	57,0	8	5,0	56,72	1	0,67	16½ S	δ *Ophiuchi.*
	9	36,0	16	10	50,0	11	58,2	49,84	1	0,47	17½ S	ε *Ophiuchi.*
	19	1,0	16	20	22,6	21	39,0	22,73	..		39½ S	*Antares.*
26	21	15,0	8	22	34,4	23	47,0	40,88	1	1,01		☉ 1 L.
	23	29,5	8	24	48,0	26	0,4					☉ 2 L.
	Cloudy at Night.											
27	25	12,0	8	26	30,0	27	43,0	37,06	1	0,22		☉ 1 L.
	27	25,4	8	28	44,0	29	57,0					☉ 2 L.

In the YEAR M.DCCCXVI.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
JULY 28	29	7,0	8	30	26,0	31	38,2	32,41	1	0,55	- - -	☉ 1 L.
	31	21,3	8	32	39,0	33	52,0					☉ 2 L.
29	Cloudy.											
30	Cloudy		at Noon.									
	18	59,2	16	20	21,0	21	37,0	20,98	5	−0,38	39½ S	*Antares.*
	-	-	16	29	15,0	30	22,0	15,58	..	...	23½ S	*ζ Ophiuchi.*
	-	-	16	36	32,0	37	52,0	31,82	..	...	19 N	*ζ Herculis.*
31	40	50,0	8	42	8,2	43	20,0	14,51	3	0,55	- - -	☉ 1 L.
	43	3,3	8	44	21,2	45	33,8					☉ 2 L.
	55	37,0	15	56	56,2	58	8,3	55,79	6	0,62	32½ S	*β Scorpionis.*
	5	39,2	16	6	53,8	8	1,7	53,12	6	0,59	16½ S	*δ Ophiuchi.*
	9	32,0	16	10	46,0	11	54,0	45,79	6	0,68	17½ S	*ε Ophiuchi.*
	-	-	16	20	19,2	21	35,6	19,40	1	1,60	39½ S	*Antares.*
	35	4,4	16	36	31,2	37	52,0	31,32	1	0,40	19 N	*ζ Herculis.*
	A. M. Fixed new horizontal Wires, and adjusted the Instrument.											
AUGUST 1	44	44,0	8	46	2,0	47	13,5	8,27	..	...	- - -	☉ 1 L.
	46	57,0	8	48	14,6	49	27,0					☉ 2 L.
	Wound up the Clock: Arc of Vibration 1°: 37′.											
	18	57,5	16	20	19,0	21	35,2	19,20	1	0,30	39½ S	*Antares.*
2	Cloudy.											
3	52	29,0	8	53	46,2	54	58,4	52,57	2	0,25	- - -	☉ 1 L.
	54	40,3	8	55	59,0	57	11,0					☉ 2 L.
	Cloudy		at Night.									
4	Cloudy.											
5	0	11,2	9	1	29,0	2	40,2	34,93	2	+0,03	- - -	☉ 1 L.
	2	24,0	9	3	41,2	4	52,5					☉ 2 L.
	Cloudy		at Night.									
6	4	2,0	9	5	19,0	6	30,5	25,04	1	−0,19	- - -	☉ 1 L.
	6	14,2	9	7	31,4	8	42,0					☉ 2. L.
	Cloudy		at Night.									
7	7	50,0	9	9	8,0	10	18,7	13,79	1	0,95	- - -	☉ 1 L.
	10	2,8	9	11	19,8	12	32,0					☉ 2 L.
	Cloudy		at Night.									
8	Cloudy.											
9	15	27,2	9	-	-	-	-	- -	..	...	- - -	☉ 1 L.
	-	-	9	18	56,5	20	8,0					☉ 2 L.
	Cloudy		at Night.									
10	19	15,5	9	20	32,0	21	42,6	38,05	3	−0,38	- - -	☉ 1 L.
	21	26,5	9	22	44,0	23	55,0					☉ 2 L.
	35	0,0	16	36	27,2	37	47,2	27,01	..	...	19 N	*ζ Herculis.*
	8	13,0	17	9	35,0	10	50,0	34,76	..	...	12 N	*λ Herculis.*
	37	55,5	17	39	28,2	40	53,9	27,93	..	...	50½ S	*β Sagittarii.*
11	23	2,6	9	24	19,0	25	30,0	25,0	1	0,45	- - -	☉ 1 L.
	25	13,0	9	26	31,4	27	41,5					☉ 2 L.
	Cloudy		at Night.									

In the YEAR M.DCCCXVI.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names* or *Characters* of the STARS AND PLANETS.
AUGUST 12	-	-	9	28	5,5	29	16,0					
	28	59,0	9	30	10,4	31	27,6	10,64	1	1,16	- - -	☉ 1 L.
												☉ 2 L.
	8	11,0	17	9	33,0	10	48,8	32,96	2	0,86	12 N	δ *Herculis.*
	21	41,5	17	23	13,0	24	38,2	13,14	..	. . .	50½ S	λ *Scorpionis.*
13	30	34,0	9	31	51,0	33	2,0					
	32	45,0	9	34	1,3	35	12,0	56,11	1	0,82	- - -	☉ 1 L.
												☉ 2 L.
14	34	20,0	9	35	36,3	36	47,0					
	36	30,0	9	37	47,2	38	58,8	41,99	1	+0,18	- - -	☉ 1 L.
												☉ 2 L.
	21	39,0	17	23	11,3	24	37,2	11,41	2	—0,86	50½ S	λ *Scorpionis.*
15	38	5,2	9	39	21,2	40	32,0					
	40	15,0	9	41	32,0	42	42,5	26,54	1	0,65	- - -	☉ 1 L.
												☉ 2 L.
	8	10,0	17	9	31,0	10	46,0	31,01	3	0,64	12 N	δ *Herculis.*
	-	-	17	12	46,0	14	2,0	26,41	..	. . .	38 S	θ *Ophiuchi.*
	27	11,0	17	28	27,0	29	38,5	27,08	..	. . .	¼ S	κ *Ophiuchi.*
	-	-	17	30	57,0	52	6,0	56,94	..	. . .	22½ S	ν *Serpentarii.*
16	Wound up the Clock: Arc of Vibration 1°: 38'.											
	21	38,0	17	23	10,5	24	35,6	10,25	2	0,56	50½ S	λ *Scorpionis.*
	27	10,3	17	28	26,2	29	38,0	26,58	1	0,67	¼ S	α *Ophiuchi.*
	37	51,0	17	39	23,7	40	49,0	23,55	2	0,91	50½ S	β *Sagittarii.*
	19	42,0	17	50	56,5	52	5,6	56,54	1	0,45	22½ S	ν *Serpentarii.*
17	45	33,7	9	46	49,8	48	0,0					
	17	44,3	9	49	0,0	50	10,0	51,88	2	0,28	- - -	☉ 1 L.
												☉ 2 L.
	17	47,0	17	19	41,0	21	23,2	41,0	2	0,66	62½ S	α *Aræ.*
	24	37,2	17	28	10,0	24	35,0	9,75	1	0,63	50½ S	λ *Scorpionis.*
	27	10,0	17	28	25,5	-	-	25,51	1	0,50	¼ S	α *Ophiuchi.*
	37	50,2	17	39	23,0	40	48,2	23,05	1	0,77	50½ S	β *Sagittarii.*
	19	41,2	17	50	56,2	52	5,2	56,09	1	0,50	22½ S	ν *Serpentarii.*
18	19	17,0	9	50	32,8	51	42,6					
	51	27,2	9	52	42,4	53	53,0	37,74	1	0,84	- - -	☉ 1 L.
												☉ 2 L.
	The Transit Telescope sent to be repaired.											
21	Put up the Telescope again—adjusted the Line of Collimation, and the Instrument to the Meridian.											
22	4	7,5	10	-	-	-	-					
	-	-	10	7	50,0	8	42,8	25,14	..	. . .	- - -	☉ 1 L.
												☉ 2 L.
23	7	49,2	10	9	2,5	10	15,0					
	9	59,0	10	11	12,0	12	24,5	7,42	1	+0,88	- - -	☉ 1 L.
												☉ 2 L.
24	11	29,5	10	12	43,0	13	55,4					
	13	39,0	10	14	52,2	16	5,0	47,70	1	—0,72	- - -	☉ 1 L.
												☉ 2 L.
25	15	9,6	10	16	23,0	17	35,4					
	17	19,0	10	18	32,8	19	45,0	27,85	1	0,45	- - -	☉ 1 L.
												☉ 2 L.
26	18	49,7	10	20	2,8	21	14,4					
	20	59,0	10	22	12,4	23	24,0	7,43	1	0,52	- - -	☉ 1 L.
												☉ 2 L.
	-	-	17	50	51,0	52	2,3	50,80	..	. . .	22½ S	ν *Serpentarii.*
	54	33,0	17	55	56,4	57	18,8	56,48	..	. . .	43½ S	γ *Sagittarii.*
	-	-	18	4	42,6	5	58,3	42,60	..	. . .	34½ S	μ. *Sagittarii.*
	9	47,2	18	-	-	12	31,0	9,76	..	. . .	43½ S	δ *Sagittarii.*
	-	-	18	17	48,0	19	5,0	48,87	..	. . .	8½ N	
	31	8,0	18	32	39,8	34	9,5	39,64	..	. . .	25½ N	α *Lyræ.*

In the YEAR M.DCCCXVI.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters of the* STARS AND PLANETS.
AUGUST 27	22	28,7	10	23	42,0	24	54,0	46,63	1	0,60	- - -	☉ 1 L.
	24	38,2	10	25	50,0	27	3,3					☉ 2 L.
	8	5,0	17	9	21,0	10	42,0	24,06	..	...	12 N	*δ Herculis.*
	27	6,0	17	28	20,2	29	32,0	20,06	..	...	50½ S	*λ Scorpionis.*
	35	7,2	17	36	19,0	37	29,8	19,10	..	...	8½ S	*β Serpentarii.*
	-	-	17	40	36,0	41	46,6	35,93	..	...	10¼ S	*γ Serpentarii.*
	9	46,0	18	11	9,6	12	31,0	9,38	1	0,60	43½ S	*δ Sagittarii.*
	16	31,2	18	17	48,0	19	4,6	48,23	1	0,20	8¼ N	
	31	7,4	*18	32	40,2	34	9,0	- -	1	0,55	25½ N	*α Lyræ.*
28	26	8,0	10	27	29,3	28	32,3	24,74	1	1,19	- - -	☉ 1 L.
	28	15,8	10	29	29,4	30	42,2					☉ 2 L.
	Cloudy.											
29	29	46,3	10	30	59,2	32	10,8	3,53	1	0,19	- - -	☉ 1 L.
	31	55,0	10	33	7,5	34	20,2					☉ 2 L.
	27	5,0	17	28	18,8	29	31,2	18,81	2	0,51	50½ S	*λ Scorpionis.*
	35	6,0	17	36	18,2	37	29,0	18,10	2	0,47	8¼ S	*β Serpentarii.*
	-	-	17	40	35,0	41	45,6	34,96	2	0,50	10¼ S	*γ Serpentarii.*
	49	36,0	17	53	49,2	52	1,3	49,21	3	0,47	22½ S	*ν Serpentarii.*
	54	31,0	17	55	54,7	57	17,0	54,68	3	0,61	43½ S	*γ Sagittarii.*
	9	45,0	18	11	8,0	12	29,0	7,83	2	0,76	43½ S	*δ Sagittarii.*
	31	6,9	*18	32	37,5	34	8,2	- -	..	...	25½ N	*α Lyræ.*
30	33	24,6	10	34	37,5	35	49,0	41,84	1	0,31	- - -	☉ 1 L.
	35	33,4	10	36	46,0	37	58,3					☉ 2 L.
	-	-	17	36	17,2	37	28,0	17,26	1	1,0	8¼ S	*β Serpentarii.*
	39	22,8	17	40	34,0	41	45,2	34,26	1	0,70	10¼ S	*γ Serpentarii.*
	49	36,0	17	50	48,0	52	0,0	48,15	1	1,25	22½ S	*ν Serpentarii.*
	54	31,0	17	55	54,4	57	16,2	54,33	1	0,33	43¼ S	*γ Sagittarii.*
	9	45,0	18	11	7,7	12	29,0	7,68	1	0,10	43¼ S	*δ Sagittarii.*
	-	-	18	17	46,0	19	2,0	45,93	2	1,15	8¼ N	
	31	5,4	*18	32	36,6	34	8,6	- -	1	0,60	25½ N	*α Lyræ.*
31	52	34,5	17	53	55,2	55	15,3	55,37	..	...	38½ S	☽ 1 L. 7ʰ 13′ 35″,55 mean Time.
	9	44,5	18	11	7,0	12	28,2	7,01	1	0,67	43½ S	*δ Sagittarii.*
	31	5,0	*18	32	36,0	34	7,2	- -	1	0,60	25¼ N	*α Lyræ.*
	Wound up the Clock: Arc of Vibration 1°: 37′.											
SEPT. 1	35	4,3	17	36	16,0	37	27,5	16,22	2	0,43	8½ S	*β Serpentarii.*
	39	22,0	17	40	32,6	41	44,0	32,78	2	0,58	10¼ S	*γ Serpentarii.*
	54	30,2	17	55	53,0	57	15,0	53,11	2	0,56	43¼ S	*γ Sagittarii.*
	9	44,0	18	11	6,2	12	28,0	6,41	1	0,50	43¼ S	*δ Sagittarii.*
	16	28,0	18	17	45,2	19	1,0	45,14	2	0,45	8½ N	
	-	-	*18	32	35,0	34	6,6	- -	1	0,60	25¼ N	*α Lyræ.*
	Western end of the Axis 0″,03 too high.											
	51	30,6	18	52	52,3	54	12,5	52,23	..	...	39½ S	☽ 1 L. 8ʰ 8′ 28″,24 mean Time.
2	44	17,3	10	45	30,2	46	41,5	34,14	..	...	- - -	☉ 1 L.
	46	25,6	10	47	39,0	48	50,0					☉ 2 L.
	Cloudy at Night.											
3	47	54,0	10	49	6,7	50	18,2	11,21	1	—0,23	- - -	☉ 1 L.
	50	3,0	10	51	16,0	52	27,2					☉ 2 L.
	49	34,0	17	50	46,2	51	58,0	46,37	2	0,55	22½ S	*ν Serpentarii.*
	54	29,0	17	55	52,0	57	14,0	52,06	2	0,54	43¼ S	*γ Sagittarii.*
	9	43,0	18	11	5,2	12	27,2	5,45	2	0,46	43¼ S	*δ Sagittarii.*
	16	26,6	18	17	44,0	19	0,0	43,94	2	0,60	8¼ N	
	31	4,0	*18	32	33,6	34	5,5	- -	2	0,55	25¼ N	*α Lyræ.*
	42	28,5	19	43	41,0	44	52,1	41,0	..	...	6½ S	*α Aquilæ.*

In the YEAR M.DCCCXVI.

DAY OF THE MONTH.	I. Wire. M S	MERIDIAN. H M S	III. Wire. M S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names* or *Characters* of the STARS AND PLANETS.
SEPT. 4	Cloudy	at Noon.						
	54 28,0	17 55 51,2	57 13,0	51,16	1	0,93	43½ S	*γ Sagittarii.*
	9 42,0	18 11 5,0	12 26,0	4,81	1	0,80	43½ S	*δ Sagittarii.*
	16 26,0	18 17 43,4	18 59,2	43,29	1	0,67	8½ N	
	31 3,2	*18 32 33,0	34 5,0	- -	1	0,65	25½ N	*α Lyræ.*
5	- -	10 56 20,0	57 31,0					⊙ 1 L.
	57 16,2	10 58 28,0	59 40,0	24,07	2	0,47	- - -	⊙ 2 L.
6	- -	11 - -	1 8,2					⊙ 1 L.
	0 52,0	11 2 6,2	3 15,4	0,74	1	0,07	- - -	⊙ 2 L.
8	5 56,0	11 7 8,4	8 20,0					⊙ 1 L.
	8 4,0	11 - -	10 27,0	12,29	2	0,48	- - -	⊙ 2 L.
	25 21,3	18 - -	28 12,0	47,55	. .	. . .	21 N	
	42 27,0	19 43 39,4	44 50,8	39,42	5	0,20	4½ S	*α Aquilæ.*
9	31 1,0	18 32 32,7	34 3,0	32,69	5	0,42	25½ N	*α Lyræ.*
	51 21,0	18 52 44,0	54 6,0	44,06	. .	. . .	43½ S	*ζ Sagittarii.*
10	Cloudy.							
11	9 39,0	18 11 1,8	12 23,0	1,71	7	0,44	43½ S	*δ Sagittarii.*
	17 6,0	18 18 26,0	19 44,0	25,79	. .	. . .	38½ S	*λ Sagittarii.*
	31 0,3	18 - -	34 2,0	31,84	2	0,40	25½ N	*α Lyræ.*
	- -	18 35 58,5	37 18,0	58,74	. .	. . .	40½ S	*θ Sagittarii.*
	44 20,0	18 45 40,0	- -	40,09	. .	. . .	39½ S	*σ Sagittarii.*
	51 20,0	18 52 43,0	54 4,6	42,96	2	0,56	43½ S	*ζ Sagittarii.*
	- -	19 43 37,0	44 49,0	37,32	3	0,70	4½ S	*α Aquilæ.*
12	20 17,5	11 21 29,6	22 40,6					⊙ 1 L.
	22 27,0	11 23 37,0	24 48,5	33,67	4	0,46	- - -	⊙ 2 L.
	42 24,0	19 43 36,6	44 48,2	36,62	1	0,60	4½ S	*α Aquilæ.*
	- -	20 3 37,0	4 48,0	37,19	. .	. . .	14½ S	*θ Antinoi.*
13	23 52,4	11 25 4,0	26 15,2					⊙ 1 L.
	26 0,4	11 27 12,4	28 23,8	8,31	1	0,96	- - -	⊙ 2 L.
	30 58,5	18 32 30,0	34 1,0	30,22	2	0,70	25½ N	*α Lyræ.*
	44 19,0	18 45 38,2	46 58,0	38,54	2	0,70	39½ S	*σ Sagittarii.*
	51 19,0	18 52 42,0	54 3,0	41,62	2	0,60	43½ S	*ζ Sagittarii.*
	57 4,3	18 58 16,8	59 27,0	16,50	. .	. . .	18½ S	*λ Antinoi.*
14	27 27,4	11 28 39,0	29 49,8					⊙ 1 L.
	29 35,0	11 30 47,3	31 58,2	43,48	1	0,33	- - -	⊙ 2 L.
	Cloudy	at Night.						
15	31 2,0	11 32 14,2	33 25,5					⊙ 1 L.
	53 10,0	11 34 22,2	35 33,4	18,24	1	0,74	- - -	⊙ 2 L.
	Cloudy	at Night.						
	Wound up the Clock: Arc of Vibration 1°: 37'.							
16	34 37,2	11 35 49,3	37 0,3					⊙ 1 L.
	36 45,5	*11 37 57,2	*39 8,2	- -	1	0,36	- - -	⊙ 2 L.
	Eastern end of the Axis 0°,20 too high.							
	Cloudy at Night.							
17	38 12,2	11 39 24,0	40 35,2					⊙ 1 L.
	40 19,0	*11 41 30,0	*42 42,0	- -	1	1,18	- - -	⊙ 2. L.
21	52 34,0	11 53 46,2	54 57,0					⊙ 1 L.
	54 42,0	11 55 54,2	57 5,0	50,09	1	0,08	- - -	⊙ 2 L.

In the YEAR M.DCCCXVI.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	Names or Characters of the STARS AND PLANETS.
SEPT. 21	44	16,0	18	45	36,0	46	55,0	36,04	8	0,34	39½ S	σ *Sagittarii.*
	51	15,6	18	52	39,0	54	0,0	38,71	8	0,39	43½ S	ζ *Sagittarii.*
	57	2,0	18	58	14,0	59	25,0	14,02	8	0,30	18¼ S	λ *Antinoi.*
22	56	9,0	11	57	21,0	58	32,4	25,21	1	0,68	- - -	☉ 1 L.
	58	17,2	11	59	29,3	0	40,2					☉ 2 L.
	Cloudy at Night.											
23	59	44,5	12	0	57,0	2	7,6	0,41	1	0,70	- - -	☉ 1 L.
	1	52,2	12	3	4,0	4	15,0					☉ 2 L.
	Cloudy at Night.											
24	3	20,0	12	4	32,0	5	43,0	36,13	1	0,28	- - -	☉ 1 L.
	5	28,2	12	6	40,2	7	51,2					☉ 2 L.
	Cloudy at Night.											
25	6	55,5	12	8	7,5	9	18,8	11,88	1	0,55	- - -	☉ 1 L.
	9	4,0	12	10	16,3	11	27,0					☉ 2 L.
	Cloudy at Night.											
26	10	31,6	12	11	43,0	12	54,4	47,36	1	0,82	- - -	☉ 1 L.
	12	40,0	12	13	51,0	15	2,0					☉ 2 L.
	51	13,3	18	52	36,0	53	58,0	36,13	5	0,49	43½ S	ζ *Sagittarii.*
	56	59,0	18	58	11,0	59	22,0	11,02	5	0,60	18¼ S	λ *Antinoi.*
	-	-	19	0	31,6	1	47,0	31,41	13	0,41	34½ S	π *Sagittarii.*
	-	-	19	14	33,3	16	30,2	33,32	..	....	40 N	κ *Cygni.*
	23	40,0	19	25	0,3	26	20,0	0,45	..	....	14½ N	β *Cygni.*
	42	18,0	19	43	31,0	44	42,0	30,77	14	0,42	4½ S	α *Aquilæ.*
27	14	7,6	12	15	19,0	16	30,0	23,16	1	0,70	- - -	☉ 1 L.
	16	15,2	12	17	27,0	18	38,0					☉ 2 L.
	51	13,0	18	52	35,8	53	57,4	35,81	1	0,87	43½ S	ζ *Sagittarii.*
	56	59,0	18	58	10,8	-	-	10,86	1	0,10	18¼ S	λ *Antinoi.*
	59	10,2	19	0	31,0	1	46,6	30,91	1	0,45	34½ S	π *Sagittarii.*
	12	33,3	19	14	33,2	16	30,0	33,17	1	0,15	40 N	κ *Cygni.*
	23	39,3	19	25	0,0	26	20,0	0,12	1	0,47	14½ N	β *Cygni.*
	42	18,0	19	43	30,2	44	42,0	30,37	1	0,23	4½ S	α *Aquilæ.*
28	17	43,2	12	18	55,3	20	5,5	59,11	1	0,65	- - -	☉ 1 L.
	19	51,2	12	21	2,0	22	14,2					☉ 2 L.
	56	58,0	18	58	10,0	59	21,0	10,02	1	0,90	18¼ S	λ *Antinoi.*
	-	-	19	0	30,0	1	46,0	30,11	1	0,80	34½ S	π *Sagittarii.*
	12	33,0	19	14	32,5	16	29,4	32,29	1	0,57	40 N	κ *Cygni.*
	23	39,0	19	24	59,5	26	19,2	59,60	1	0,57	14½ N	β *Cygni.*
	42	17,0	19	43	29,6	44	41,2	29,62	1	0,80	4½ S	α *Aquilæ.*
29	21	19,7	12	22	31,0	23	42,0	35,41	1	0,50	- - -	☉ 1 L.
	23	28,0	12	24	39,6	25	50,0					☉ 2 L.
	12	32,5	19	14	31,4	16	29,0	31,52	1	0,67	40 N	κ *Cygni.*
	31	6,0	19	32	27,8	33	48,0	27,73	..	....	39½ S	☽ 1 L. 6ʰ 58′ 3″,27 mean Time.
	42	16,6	19	43	29,2	44	40,0	29,01	1	0,67	4½ S	α *Aquilæ.*
30	24	55,5	12	26	7,0	27	18,2	11,68	1	0,83	- - -	☉ 1 L.
	27	4,2	12	28	16,0	29	27,0					☉ 2 L.
	23	37,2	19	24	58,0	26	17,2	57,90	2	0,88	14½ N	β *Cygni.*
	42	15,8	19	43	28,2	44	39,0	28,07	1	0,93	4½ S	α *Aquilæ.*
	-	-	20	3	29,0	4	39,0	29,07	..	....	14½ S	θ *Antinoi.*
	7	53,0	20	9	7,0	10	19,4	6,87	..	....	26 S	1 α *Capricorni.*
	8	17,0	20	9	31,0	10	43,0	30,77	..	....	26½ S	2 α *Capricorni.*
	27	18,7	20	28	39,0	29	58,0	39,0	..	....	37½ S	☽ 1 L. 7ʰ 50′ 10″,26 mean Time.
	35	9,0	20	36	50,0	38	29,0	50,06	..	....	31½ N	κ *Cygni.*
	-	-	20	40	27,0	41	50,6	26,95	..	....	20¼ N	ε *Cygni.*
OCT. 1	28	32,0	12	29	44,3	30	55,0	48,48	1	0,60	- - -	☉ 1 L.
	30	41,0	12	31	53,0	33	3,5					☉ 2 L.

Wound up the Clock : Arc of Vibration 1° : 38′.

In the YEAR M.DCCCXVI.

DAY of the MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
OCT. 1	42	15,2	19	43	28,0	44	39,0	27,81	1	— 0,23	4½ S	*α Aquilæ.*
	2	16,0	20	3	28,4	4	39,4	28,31	1	0,5	14½ S	*θ Antinoi.*
	7	53,0	20	9	6,3	10	18,4	6,26	1	0,57	26 S	*1 α Capricorni.*
	8	16,6	20	9	30,2	10	42,0	30,02	1	0,73	26½ S	*2 α Capricorni.*
	20	22,0	21	21	41,0	22	58,0	40,77	..	. . .	34½ S	☽ 1 L. 8h 39′ 7″,84 mean Time.
2	32	9,0	12	33	21,0	-	-					☉ 1 L.
	-	-	12	35	80,0	36	40,2	25,31	1	0,67	. . .	☉ 2 L.
	23	33,3	19	24	57,0	26	15,6	56,93	2	0,75	14½ N	*β Cygni.*
	-	-	19	43	27,2	44	38,3	27,36	1	0,75	4½ S	*α Aquilæ.*
	7	52,0	20	9	5,4	10	18,0	5,46	1	0,77	26 S	*1 α Capricorni.*
	8	16,0	20	9	29,3	10	41,2	29,21	1	0,77	26½ S	*2 α Capricorni.*
3	35	46,0	12	36	57,8	38	9,0					☉ 1 L.
	37	54,3	12	39	7,0	40	17,3	2,25	1	1,06	. . .	☉ 2 L.
	23	34,4	19	24	56,0	26	15,0	55,64	1	0,83	14½ N	*β Cygni.*
	42	14,0	19	43	26,0	44	37,0	26,01	1	1,25	4½ S	*α Aquilæ.*
	2	14,2	20	3	26,0	4	37,0	26,06	2	1,10	14½ S	*θ Antinoi.*
	-	-	20	9	28,0	10	40,2	28,28	1	1,15	26½ S	*2 α Capricorni.*
	35	6,7	20	36	48,0	38	27,0	48,97	3	0,70	31½ N	*α Cygni.*
	38	58,2	20	40	24,0	41	48,0	24,03	3	0,93	20½ N	*ε Cygni.*
4	39	23,0	12	40	35,0	41	46,0					☉ 1 L.
	41	32,0	12	42	43,5	43	54,2	39,30	1	1,15	. .	☉ 2 L.
	-	-	19	43	25,2	44	36,3	25,44	1	0,75	4½ S	*α Aquilæ.*
	2	13,5	20	3	25,3	4	36,0	25,28	1	0,8	14½ S	*θ Antinoi.*
	7	50,0	20	9	3,6	-	-	3,40	1	0,4	26 S	*1 α Capricorni.*
	8	14,0	20	9	27,0	-	-	27,19	1	1,0	26½ S	*2 α Capricorni.*
	22	24,0	21	23	39,0½	-	-,-	39,20	..	. . .	30 S	*♄ Centrum.* 8h 29′ 21″,15 mean Time.
	Observed the third Wire slackened.											
5	43	0,2	12	44	12,5	-	-			—		☉ 1 L.
	45	9,0	12	46	22,2	-	-	17,35	1	0,55	. . .	☉ 2 L.
	23	33,3	19	24	55,0	-	-	55,0	2	0,53	14½ N	*β Cygni.*
	42	12,0	19	43	25,0	-	-	24,96	1	0,20	4½ S	*α Aquilæ.*
	2	13,0	20	3	25,0	-	-	24,75	1	0,40	14½ S	*θ Antinoi.*
	7	49,2	20	9	3,0	-	-	2,79	1	0,70	26 S	*1 α Capricorni.*
	8	13,3	20	9	26,7	-	-	26,69	1	0,50	26½ S	*2 α Capricorni.*
	35	5,0	20	36	46,0	-	-	45,80	2	0,93	31½ N	*α Cygni.*
	38	57,0	20	40	22,8	-	-	22,71	2	0,60	20½ N	*ε Cygni.*
	Third Wire tightened.											
6	46	39,0	12	47	51,4	49	2,0			—		☉ 1 L.
	48	48,4	12	50	0,0	51	10,2	55,85	1	0,50	. . .	☉ 2 L.
	42	11,8	19	43	24,0	44	35,0	24,11	1	0,60	4½ S	*α Aquilæ.*
	-	-	20	3	24,3	4	34,0	24,22	1	0,70	14½ S	*θ Antinoi.*
	7	49,0	20	9	2,2	10	14,0	2,26	1	0,59	26 S	*1 α Capricorni.*
	8	13,8	20	9	26,0	10	38,0	26,11	1	0,60	26½ S	*2 α Capricorni.*
	22	10,0	21	23	24,0	24	37,6	24,16	..	. . .	30 S	*♄ Centrum.* 8h 21′ 15″,11 mean Time.
	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.											
7	50	17,8	12	51	29,8	52	40,3			—		☉ 1 L.
	52	27,2	12	53	38,4	54	49,6	34,39	1	0,86	. . .	☉ 2 L.
	-	-	19	43	23,0	44	34,0	23,19	1	1,0	4½ S	*α Aquilæ.*
	2	12,0	20	3	23,7	4	33,0	23,50	1	0,8	14½ S	*θ Antinoi.*
	7	48,0	20	9	2,0	-	-	1,69	1	0,60	26 S	*1 α Capricorni.*
	8	12,0	20	9	25,6	10	37,0	25,46	1	0,78	26½ S	*2 α Capricorni.*
	35	4,0	20	36	45,0	38	23,0	44,81	2	0,50	31½ N	*α Cygni.*

In the YEAR M.DCCCXVI.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS and PLANETS.
Oct. 7	38	55,0	20	40	21,3	41	45,2	21,18	2	0,88	20½ N	ε *Cygni.*
	22	3,5	20	23	18,8	24	32,0	18.53	..	...	30 S	*h Centrum.* 8h 17′ 14″,46 mean Time.
	42	50,0	21	44	20,8	45	50,0	20,91	..	...	51½ S	γ *Gruis.*
8	53	56,0	12	55	8,8	56	19,2					☉ 1 L.
	55	6,2	12	57	18,0	58	28,3	13,29	1	0,80	- - -	☉ 2 L.
	-	-	19	43	22,0	44	33,0	22,19	1	1,0	4½ S	α *Aquilæ.*
	2	11,4	20	3	22,6	4	32,6	22,70	1	0,70	14½ S	θ *Antinoi.*
	7	48,0	20	9	1,0	-	-	1,19	1	0,50	26 S	1 α *Capricorni.*
	8	11,0	20	9	25,9	10	36,0	24,93	1	0,87	26½ S	2 α *Capricorni.*
	15	39,0	20	-	-	18	45,3	12,15	1	0,95	26¾ N	γ *Cygni.*
	35	3,5	20	36	44,0	38	22,3	44,01	1	0,73	31¼ N	α *Cygni.*
9	57	36,0	12	58	48,2	59	58,8					☉ 1 L.
	59	45,0	13	0	58,0	2	8,5	52,95	1	0,34	- - -	☉ 2 L.
	42	10,0	19	43	22,2	44	32,2	22,06	1	0,30	4½ S	α *Aquilæ.*
	2	11,0	20	3	22,0	4	32,0	22,15	1	0,53	14½ S	θ *Antinoi.*
	7	47,0	20	9	0,0	10	12,0	0,16	1	1,0	26 S	1 α *Capricorni.*
	8	10,7	20	9	24,0	10	35,8	24,04	1	0,50	26½ S	2 α *Capricorni.*
	15	38,0	20	17	11,0	18	42,4	11,12	1	0,95	26¾ N	γ *Cygni.*
	35	3,0	20	-	-	38	22,0	43,63	1	0,40	31¼ N	α *Cygni.*
10	1	15,5	13	2	28,0	3	38,5					☉ 1 L.
	3	26,0	13	4	38,0	5	48,0	32,87	1	0,78	- - -	☉ 2 L.
	2	10,0	20	3	22,0	4	32,0	21,90	1	0,33	14½ S	θ *Antinoi.*
	8	10,0	20	9	23,4	10	35,4	23,46	1	0,57	26½ S	2 α *Capricorni.*
	15	38,0	20	17	10,8	18	42,0	10,42	1	0,20	26¾ N	γ *Cygni.*
	35	2,0	20	36	42,8	38	21,0	42,71	1	1,0	31¼ N	α *Cygni.*
	38	54,0	20	40	19,3	41	43,0	19,38	3	0,58	20¼ N	ε *Cygni.*
	21	45,3	21	22	59,6	24	13,4	59,74	..	...	30 S	*h Centrum.* 8h 3′ 9″,59 mean Time.
11	4	56,0	13	6	8,3	7	19,0					☉ 1 L.
	7	6,4	13	8	18,0	9	29,0	13,33	1	0,74	- - -	☉ 2 L.
	42	9,0	19	43	21,0	44	31,0	20,91	2	0.56	4½ S	α *Aquilæ.*
	2	10,0	20	3	21,6	-	-	21,55	1	0,20	14½ S	θ *Antinoi.*
	15	38,0	20	17	10,0	18	41,0	10,27	1	0,60	26¾ N	γ *Cygni.*
	35	2,0	20	36	42,7	38	21,0	42,66	1	0,03	31¼ N	α *Cygni.*
	-	-	20	40	19,0	41	43,0	19,15	1	0,15	20¼ N	ε *Cygni.*
	37	10,5	21	58	25,5	59	38,6	25,42	4	0,60	30 S	ζ *Capricorni.*
	42	47,5	21	44	18,7	45	47,4	18,59	4	0,58	51½ S	γ *Gruis.*
12	8	37,0	13	9	49,6	11	0,2					☉ 1 L.
	10	47,3	13	11	59,0	13	10,4	54,46	1	0,57	- - -	☉ 2 L.
	2	9,0	20	3	20,6	4	31,0	20,70	1	1,0	14½ S	θ *Antinoi.*
	15	37,0	20	17	9,2	18	40,5	9,49	1	0,78	26¾ N	γ *Cygni.*
	35	2,0	20	36	42,0	38	20,0	42,06	1	0,57	31¼ N	α *Cygni.*
	38	53,0	20	40	18,2	41	42,0	18,33	1	0,90	20¼ N	ε *Cygni.*
	21	36,0	21	22	50,0	24	4,0	50,0	..	...	30 S	*h Centrum.* 7h 57′ 9″,98 mean Time.
	55	30,0	21	36	42,0	37	52,0	41,91	..	...	4½ S	ε *Pegasi.*
	42	47,0	21	44	18,0	45	47,0	18,01	1	0,53	51½ S	γ *Gruis.*
13 14	Cloudy.											
15	-	-	13	-	-	-	-					☉ 1 L.
	-	-	13	23	7,0	24	18,0	- -	..	...	- - -	☉ 2 L.
	2	8,0	20	-	-	4	30,0	19,81	3	0,33	14½ S	θ *Antinoi.*
	8	8,0	20	9	22,0	10	33,0	22,33	3	0,33	26½ S	2 α *Capricorni.*
	15	36,0	20	17	9,0	18	40,0	9,02	3	0,23	26¾ N	γ *Cygni.*
	-	-	20	36	41,2	38	19,0	41,01	3	0,30	31¼ N	α *Cygni.*
16	Wound up the Clock : Arc of Vibration 1° : 38′.											
	10	20,0	20	12	33,0	14	42,2	32,80	..	...	70½ S	α *Pavonis.*
	24	19,0	20	26	6,3	27	50,4	6,10	..	...	61 S	α *Indi.*
	38	52,0	20	40	17,2	41	41,0	17,33	4	0,25	20¼ N	ε *Cygni.*

In the YEAR M.DCCCXVI.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
OCT. 16	-	-	21	15	42,2	18	10,4	42,10	..	—	48½ N	*α Cephei.*
	21	23,3	21	22	38,0	23	50,0	38,17	..	...	30 S	♄ *Centrum.* 7h 41' 15",15 mean Time.
	35	28,0	21	36	40,5	-	-	40,38	4	0,29	4½ S	*ε Pegasi.*
17	10	20,0	20	12	32,2	14	41,5	32,22	1	0,50	70½ S	*α Pavonis.*
	24	19,2	20	26	6,0	27	50,0	5,90	1	0,17	61 S	*α Indi.*
	38	52,0	20	40	17,5	44	41,0	17,48	1	+0,10	20½ N	*ε Cygni.*
	21	20,0	21	22	35,0	23	49,0	35,01	..	...	30 S	♄ *Centrum.* 7h 37' 16",69 mean Time.
	35	28,0	21	36	40,0	37	51,0	40,15	1	—0,25	4½ S	*ε Pegasi.*
	42	45,0	21	44	16,0	45	46,0	16,26	5	0,34	51½ S	*γ Gruis.*
	56	20,0	21	58	6,0	59	51,0	6,20	..	...	61 S	*α Gruis.*
18	30	56,0	13	32	8,2	33	20,0	13,81	6	0,43	- - -	⊙ 1 L.
	33	6,0	13	-	-	35	30,0					⊙ 2 L.
	15	35,0	20	17	8,6	18	39,0	8,32	3	0,27	26½ N	*γ Cygni.*
	38	51,4	20	40	17,0	41	40,6	16,98	1	0,50	20½ N	*ε Cygni.*
	5	15,0	21	6	37,7	7	58,0	37,56	..	...	16½ N	*ζ Cygni.*
	56	20,0	21	58	6,6	59	50,4	6,50	1	0,40	61 S	*α Gruis.*
19	34	40,5	13	35	54,0	37	5,3	59,26	1	+0,25	- - -	⊙ 1 L.
	36	52,0	13	38	4,5	39	16,0					⊙ 2 L.
	5	15,0	21	6	38,0	7	58,0	37,71	1	0,10	16½ N	*ζ Cygni.*
	13	10,0	21	15	42,2	18	10,0	41,96	3	—0,07	48½ N	*α Cephei.*
	35	27,7	21	36	40,0	37	50,6	39,98	1	0,13	4½ S	*ε Pegasi.*
	-	-	21	44	17,0	45	45,0	16,61	2	0,50	51½ S	*γ Gruis.*
	56	19,7	21	58	6,0	59	50,8	6,23	1	0,17	61 S	*α Gruis.*
20	38	27,0	13	39	41,0	40	51,0	45,96	1	+0,30	- - -	⊙ 1 L.
	40	39,2	13	41	51,0	43	2,5					⊙ 2 L.
	13	35,0	20	17	8,0	18	39,0	8,02	2	—0,10	26½ N	*γ Cygni.*
	24	19,0	20	26	6,0	27	50,0	5,85	3	0,02	61 S	*α Indi.*
	-	-	20	36	40,0	38	18,5	40,16	2	0,13	31½ N	*α Cygni.*
	38	51,0	20	40	17,0	41	40,0	16,73	2	0,16	20½ N	*ε Cygni.*
	5	15,0	21	6	37,8	7	58,0	37,61	1	0,07	16½ N	*ζ Cygni.*
	21	16,0	21	22	31,0	23	45,0	31,01	..	...	30 S	♄ *Centrum.* 7h 25' 21",34 mean Time.
21	42	14,0	13	43	27,3	44	39,0	33,0	1	+0,06	- - -	⊙ 1 L.
	44	25,4	13	45	38,0	46	49,0					⊙ 2 L.
	15	35,0	20	17	8,0	18	39,0	8,02	1	0,0	26½ N	*γ Cygni.*
	24	19,0	20	26	5,6	27	50,0	5,65	1	—0,13	61 S	*α Indi.*
	34	59,2	20	36	40,0	38	18,6	39,86	1	0,25	31½ N	*α Cygni.*
	38	50,8	20	40	16,4	41	40,2	16,43	1	0,20	20½ N	*ε Cygni.*
	21	16,0	21	22	30,3	23	43,0	30,16	..	...	30 S	♄ *Centrum.* 7h 21' 27",37 mean Time.
	42	45,0	21	44	16,0	45	45,0	16,01	2	0,25	51½ S	*γ Gruis.*
	56	20,0	21	58	6,0	59	50,0	6,10	2	0,19	61 S	*α Gruis.*
22	46	1,0	13	47	14,2	48	25,3	19,74	1	0,96	- - -	⊙ 1 L.
	48	16,2	13	49	25,2	50	37,3					⊙ 2 L.
	15	34,8	20	17	8,0	18	38,4	7,82	1	0,23	26½ N	*γ Cygni.*
	34	59,0	20	36	40,0	38	17,8	39,76	1	0,13	31½ N	*α Cygni.*
	38	50,5	20	40	16,6	41	40,0	16,49	1	0,10	20½ N	*ε Cygni.*
	5	15,0	21	6	37,2	7	57,2	37,11	2	0,24	16½ N	*ζ Cygni.*
	-	-	21	15	40,4	18	9,0	40,70	3	0,31	48½ N	*α Cephei.*
	24	15,3	-	-	-	28	43,4	29,83	..	...	30 S	♄ *Centrum.* 7h 17' 32",04 mean Time.
	35	27,7	21	36	39,3	-	-	39,65	3	0,12	4½ S	*ε Pegasi.*
	56	20,0	21	58	6,0	59	49,2	5,90	1	0,27	61 S	*α Gruis.*
23	49	49,0	13	51	2,5	52	13,0	7,89	1	0,25	- - -	⊙ 1 L.
	52	0,4	13	53	14,2	54	25,0					⊙ 2 L.
	21	16,0	21	22	30,0	23	43,0	30,01	..	...	30 S	♄ *Centrum.* 7h 13' 36",43 mean Time.
24	53	36,6	13	-	-	56	1,2	56,12	1	0,87	- - -	⊙ 1 L.
	-	-	13	57	2,0	58	14,0					⊙ 2 L.
25	-	-	13	-	-	59	51,0	45,32	1	0,50	- - -	⊙ 1 L.
	59	38,0	14	0	50,0	1	52,5					⊙ 2 L.
26	21	18,0	21	22	32,2	23	46,0	32,37	..	...	30 S	♄ *Centrum.* 7h 1' 51",79 mean Time.

In the YEAR M.DCCCXVI.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
Oct. 27	5	6,0	14	6	20,2	7	32,2	26,46	2	0,28	. . .	☉ 1 L.
	.	.	14	8	33,0	9	45,0					☉ 2 L.
28	.	.	14	10	11,4	.	.	17,4	1	0,96	. . .	☉ 1 L.
	.	.	14	12	23,4	18	36,0					☉ 2 L.
29	.	.	14	14	3,3	15	15,2					☉ 1 L.
	15	2,5	14	16	16,4	.	.	9,76	1	0,34	. . .	☉ 2 L.
	53	52,4	21	55	9,0	.	.	9,98	..	. . .	31 S	☽ 1 L. 7h 22′ 37″,38 mean Time.
30	Cloudy.											
31	.	.	14	21	51,0	23	3,0					☉ 1 L.
	22	50,0	14	24	3,6	25	16,0	57,31	2	0,03	. . .	☉ 2 L.
	38	49,0	20	40	14,2	41	38,0	11,33	9	0,22	20½ N	ε *Cygni.*
	5	12,8	21	6	35,0	7	55,2	34,96	9	0,24	16½ N	ζ *Cygni.*
	13	8,0	21	15	39,3	18	7,0	39,26	9	0,17	48½ N	α *Cephei.*
	21	32,0	21	22	46,5	23	59,2	46,31	..	. . .	30 S	♄ *Centrum.* 6h 42′ 26″,82 mean Time.
	42	43,0	21	44	14,0	45	42,8	13,96	10	0,21	51¼ S	γ *Gruis.*
Nov. 1	24	30,5	14	25	45,2	26	58,2					☉ 1 L.
	26	45,0	14	27	59,0	29	11,0	52,31	1	+0,10	. . .	☉ 2 L.
	Wound up the Clock: Arc of Vibration 1°; 37′.											
2	Cloudy.											
3	32	22,0	14	33	36,5	.	.					☉ 1 L.
	.	.	14	.	.	37	4,0	43,5	2	−0,56	. . .	☉ 2 L.
4	.	.	14	37	34,0	.	.					☉ 1 L.
	.	.		.		.	.	. .	. . .		. . .	☉ 2 L.
5	Cloudy.											
6	44	17,2	14	45	30,8	46	44,0					☉ 1 L.
	46	31,0	14	47	46,2	48	59,2	38,46	3	0,12	. . .	☉ 2 L.
	13	8,5	21	15	40,0	18	7,7	39,99	6	+0,10	48½ N	α *Cephei.*
	22	2,5	21	23	16,8	24	30,4	16,48	..	. . .	30 S	♄ *Centrum.* 6h 19′ 22″,58 mean Time.
	35	26,2	21	36	38,7	37	49,0	38,60	6	0,16	4½ S	ε *Pegasi.*
	56	18,6	21	58	4,0	59	48,0	4,17	..	. . .	61 S	α *Gruis.*
7	48	16,0	14	49	30,4	50	44,0					☉ 1 L.
	50	31,0	14	51	46,0	52	59,0	38,35	1	0,09	. . .	☉ 2 L.
	35	26,2	21	36	38,0	37	49,0	38,25	1	−0,23	4½ S	ι *Pegasi.*
	42	43,0	21	44	14,2	45	43,0	14,17	7	+0,02	51½ S	γ *Gruis.*
	56	18,2	21	58	4,4	59	48,0	4,42	1	0,20	61 S	α *Gruis.*
	.	.	22	33	8,0	34	51,5	7,57	..	. . .	61 S	β *Gruis.*
8	52	17,0	14	53	31,0	54	42,2					☉ 1 L.
	54	32,0	14	.	.	57	0,0	38,21	1	−0,84	. . .	☉ 2 L.
	22	16,0	21	23	30,0	24	43,0	30,08	..	. . .	30 S	♄ *Centrum.* 6h 11′ 43″,75 mean Time.
	42	43,3	21	44	14,0	45	43,5	14,22	1	+0,13	51½ S	γ *Gruis.*
	56	17,3	21	58	4,0	.	.	4,01	1	−0,65	61 S	α *Gruis.*
	26	11,7	22	27	29,0	28	23,0	23,13	..	. . .	14 S	ζ *Aquarii.*
	31	20,0	22	33	7,0	34	51,5	7,04	1	0,35	61 S	β *Gruis.*
	.	.	22	44	30,0	45	40,0	29,79	..	. . .	21½ S	λ *Aquarii.*
	47	34,0	22	48	57,2	50	18,0	57,12	..	. . .	48½ S	*Fomalhaut.*
	55	0,7	22	56	22,0	57	40,0	22,18	..	. . .	14 N	β *Pegasi.*
9	56	16,5	14	57	32,0	58	45,0					☉ 1 L.
	58	32,5	14	59	47,2	1	1,4	39,72	1	0,09	. . .	☉ 2 L.
	42	43,0	21	44	14,0	45	43,2	14,12	1	0,13	51½ S	γ *Gruis.*
	51	20,0	22	33	7,0	34	51,0	6,92	1	0,17	61 S	β *Gruis.*
	47	33,6	22	.	.	50	18,0	56,84	1	0,20	48½ S	*Fomalhaut.*
	55	1,0	22	56	22,0	57	40,0	21,75	1	+0,10	14 N	β *Pegasi.*

In the YEAR M.DCCCXVI.

DAY OF THE MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.		Names or Characters of the STARS AND PLANETS.
Nov. 10	0	18,5	15	1	34,0	2	47,0	41,72	1	— 0,50	- - -		⊙ 1 L.
	2	35,0	15	3	49,2	5	3,0						⊙ 2 L.
11	Cloudy.												
12	8	24,5	15	9	40,4	10	55,0	48,97	2	0,13	- - -		⊙ 1 L.
	10	42,0	15	11	57,2	13	11,0						⊙ 2 L.
13	Cloudy.												
14	Cloudy		at	Noon.									
	58	39,2	0	-	-	3	8,0	55,90	..	...	45	N	β *Cassiopeiæ.*
	17	0,0	0	18	39,2	20	15,0	39,02	..	...	56	S	α *Phœnicis.*
	26	18,0	0	28	17,0	30	13,0	17,0	..	...	40	N	ζ *Cassiopeiæ.*
	-	-	0	31	38,8	33	41,2	38,35	..	...	42½	N	α *Cassiopeiæ.*
15	20	41,0	15	21	57,0	25	10,4	5,86	3	+0,47	- - -		⊙ 1 L.
	22	58,0	15	24	14,0	25	28,0						⊙ 2 L.
	42	42,0	21	44	13,0	45	42,0	18,07	6	—0,18	51½	S	γ *Gruis.*
	56	16,0	21	58	3,2	59	47,3	3,09	7	0,15	61	S	α *Gruis.*
	31	19,0	22	33	6,0	34	50,0	5,92	6	0,17	61	S	β *Gruis.*
	13	16,7	22	44	29,0	45	40,0	23,12	7	0,09	21½	S	λ *Aquarii.*
	47	38,0	22	48	56,0	50	17,3	56,09	6	0,09	43½	S	*Fomalhaut.*
	55	0,2	22	56	20,6	57	39,2	20,65	6	0,16	14	N	β *Pegasi.*
	58	40,0	0	0	55,3	3	8,0	55,53	1	0,40	45	N	β *Cassiopeiæ.*
	-	-	0	11	32,0	12	42,2	31,89	1	0,40	23	S	ι *Ceti.*
	17	0,0	0	18	38,8	20	14,4	38,66	1	0,33	56	S	α *Phœnicis.*
	26	18,0	0	28	17,0	30	12,3	16,82	1	0,23	40	N	ζ *Cassiopeiæ.*
	-	-	0	31	38,2	33	41,6	38,28	1	0,60	42½	N	α *Cassiopeiæ.*
	Wound up the Clock: Arc of Vibration 1°: 37'.												
16	24	49,2	15	-	-	-	-	15,42	1	+ 0,46	- - -		⊙ 1 L.
	-	-	15	28	22,2	29	35,0						⊙ 2 L.
	47	32,0	22	48	55,0	50	17,0	55,27	1	—0,77	43½	S	*Fomalhaut.*
	55	0,0	22	56	20,2	57	39,0	20,35	1	0,27	14	N	β *Pegasi.*
	58	39,0	0	0	55,5	3	7,0	55,13	1	0,37	45	N	β *Cassiopeiæ.*
	4	1,0	0	5	15,0	6	27,0	14,96	1	0,30	1½	N	γ *Pegasi.*
	10	18,8	0	11	32,0	12	42,2	31,70	1	0,0	23	S	ι *Ceti.*
	17	0,0	0	18	38,0	20	14,0	38,16	1	0,40	56	S	α *Phœnicis.*
	26	17,8	0	28	17,0	30	12,0	16,70	1	0,17	40	N	ζ *Cassiopeiæ.*
	29	31,5	0	31	38,0	33	41,3	37,95	1	0,25	42½	N	α *Cassiopeiæ.*
17	28	56,2	15	30	12,0	31	26,0	20,99	1	1,03	- - -		⊙ 1 L.
	31	14,0	15	32	30,0	33	44,0						⊙ 2 L.
	-	-	22	33	5,5	34	49,8	5,62	2	0,35	61	S	β *Gruis.*
	58	39,0	0	0	55,0	3	7,0	54,80	1	0,77	45	N	β *Cassiopeiæ.*
	4	0,6	0	-	-	6	27,6	14,73	1	0,0	1½	N	γ *Pegasi.*
	10	19,0	0	11	31,0	12	42,0	31,20	1	0,47	23	S	ι *Ceti.*
	17	0,0	0	18	38,0	20	14,0	38,16	1	0,0	56	S	α *Phœnicis.*
	26	18,0	0	28	16,5	30	12,0	16,50	1	0,35	40	N	ζ *Cassiopeiæ.*
	29	32,0	0	31	38,0	33	41,2	38,05	1	0,20	42½	N	α *Cassiopeiæ.*
	A. M. Examined the Line of Collimation and Meridian adjustment,—found both right.												
18	56	15,0	21	58	2,2	59	46,0	2,02	3	— 0,37	61	S	α *Gruis.*
	-	-	22	44	28,0	45	30,0	28,29	3	0,33	21½	S	λ *Aquarii.*
	47	32,0	22	48	55,0	50	16,0	55,92	2	0,16	43½	S	*Fomalhaut.*
	55	0,0	22	56	20,0	57	38,8	20,20	2	0,07	14	N	β *Pegasi.*
	10	19,2	0	11	31,5	12	41,8	31,45	1	+0,17	23	S	ι *Ceti.*
	17	0,0	0	18	38,0	20	14,0	38,17	1	0,0	56	S	α *Phœnicis.*
19	37	15,5	15	38	31,2	39	45,3	40,13	2	—9,23	- - -		⊙ 1 L.
	39	33,0	15	40	49,0	42	3,0						⊙ 2 L.

In the YEAR M.DCCCXVI.

DAY OF THE MONTH.	I. Wire. M S	MERIDIAN. H M S	III. Wire. M S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
Nov. 19		*SOLAR ECLIPSE (partial.)*						
		Beginning				*Time by Clock.* 19h 56′ 8″.		*Apparent Time.* 4h 15′ 43″,34.
	. .	21 25 9,0	26 22,0	9,00	. .	. . .	30 S	♄ *Centrum.* 5h 30′ 8″,61 mean Time.
	56 15,0	21 58 2,0	59 46,3	1,99	1	+0,03	61 S	α *Gruis.*
	31 18,0	22 33 5,0	34 49,0	4,92	2	—0,32	61 S	β *Gruis.*
	43 15,0	22 44 28,0	45 39,0	27,95	1	0,0	21½ S	λ *Aquarii.*
	47 32,0	22 48 55,0	50 16,0	55,02	1	0,0	43½ S	*Fomalhaut.*
20	56 15,2	21 58 2,0	59 46,0	1,97	1	0,03	61 S	α *Gruis.*
	31 17,7	22 33 4,6	34 49,0	4,62	1	0,23	61 S	β *Gruis.*
	43 15,2	22 44 27,8	45 38,7	27,82	1	0,10	21½ S	λ *Aquarii.*
	47 31,6	22 48 54,8	50 15,8	54,77	1	0,27	43½ S	*Fomalhaut.*
	10 18,0	0 11 30,4	12 41,5	30,53	2	0,43	23 S	ι *Ceti.*
	16 59,0	0 18 37,0	20 13,0	37,16	2	0,50	56 S	α *Phœnicis.*
21	45 37,2	15 46 52,5	48 8,2	2,12	2	0,56	. . .	☉ 1 L.
	47 54,3	15 49 10,0	50 25,0					☉ 2 L.
	47 31,8	22 48 54,8	50 15,6	54,77	1	0,0	43½ S	*Fomalhaut.*
	55 50,0	22 57 3,0	58 15,2	3,26	. .	. . .	1½ N	α *Pegasi.*
	29 30,0	0 31 37,0	33 40,0	36,70	4	0,35	42½ N	α *Cassiopeiæ.*
22	49 48,0	15 51 5,0	52 20,0	14,22	1	0,50	. . .	☉ 1 L.
	52 7,0	15 53 23,3	54 38,2					☉ 2 L.
	31 17,2	22 33 4,0	34 48,0	3,97	2	0,52	61 S	β *Gruis.*
	36 52,2	22 38 49,0	40 43,3	49,0	. .	. . .	65½ S	ε *Gruis.*
	47 31,0	22 48 54,0	50 15,0	54,02	1	0,73	43½ S	*Fomalhaut.*
	54 59,0	22 56 19,0	57 37,3	19,08	. .	. . .	14 N	β *Pegasi.*
	16 58,4	0 18 37,0	. .	36,72	2	0,15	56 S	α *Phœnicis.*
23	54 1,0	15 55 17,0	. .	27,07	1	0,55	. . .	☉ 1 L.
	. .	15 57 37,4	58 51,0					☉ 2 L.
	31 17,0	22 33 4,0	34 48,0	3,92	1	0,07	61 S	β *Gruis.*
	36 52,0	22 38 49,7	40 43,0	49,75	1	+0,07	65½ S	ε *Gruis.*
	. .	22 44 27,0	45 58,0	27,29	3	—0,33	21½ S	λ *Aquarii.*
	47 31,0	22 48 54,0	50 15,0	54,02	1	0,0	43½ S	*Fomalhaut.*
	54 58,2	22 56 19,0	57 37,0	18,80	1	0,38	14 N	β *Pegasi.*
24	58 15,2	15 59 31,3	0 46,5	41,0	1	0,27	. . .	☉ 1 L.
	0 34,2	16 1 50,0	3 5,0					☉ 2 L.
	31 17,0	22 33 4,0	34 48,4	4,02	1	+0,13	61 S	β *Gruis.*
	36 52,0	22 38 49,0	40 42,4	48,72	1	—0,43	65½ S	ε *Gruis.*
	43 15,0	22 44 27,0	45 38,0	27,20	1	0,0	21½ S	λ *Aquarii.*
	47 31,0	22 48 54,0	. .	54,14	1	0,0	43½ S	*Fomalhaut.*
	54 58,2	22 56 19,0	57 37,0	18,80	1	0,0	14 N	β *Pegasi.*
	59 0,2	0 0 21,2	1 40,0	21,20	3	0,02	15 N	α *Andromedæ.*
	3 59,0	0 5 13,0	6 26,0	13,31	. .	. . .	1½ N	γ *Pegasi.*
	26 16,0	0 28 15,0	. .	15,0	2	0,40	40 N	ζ *Cassiopeiæ.*
	29 30,0	0 31 36,3	33 40,0	36,40	3	0,08	42½ N	α *Cassiopeiæ.*
25	2 29,5	16 3 46,0	5 1,2	56,16	1	+0,26	. . .	☉ 1 L.
	4 49,0	*16 6 6,5	*7 21,0					☉ 2 L.
	Western end of the Axis 0′,32 too high.							
	31 18,0	22 33 4,0	34 48,0	4,17	1	+0,20	61 S	β *Gruis.*
	43 15,0	22 44 27,0	45 37,8	27,15	1	—0,07	21½ S	λ *Aquarii.*
	47 31,0	22 48 54,0	50 15,0	54,02	1	0,0	43½ S	*Fomalhaut.*
	54 58,0	22 56 19,0	57 37,0	18,75	1	0,07	14 N	β *Pegasi.*
26	6 45,0	16 8 2,0	. .	11,25	1	+0,61	. . .	☉ 1 L.
	. .	*16 10 20,5	. .					☉ 2 L.
	24 0,0	22 25 15,5	26 29,0	15,52	. .	. . .	29½ S	☽ 1 L. 6h 2′ 34″,97 mean Time.

In the YEAR M.DCCCXVI.

DAY OF THE MONTH.		I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names* or *Characters* of the STARS AND PLANETS.
Nov.	27	11	0,3	16	12	17,2	18	33,3	- -	. .	— . . ,	- - -	☉ 1 L.
		31	17,7	22	33	4,0	34	48,0	4,09	1	0,10	61 S	β *Gruis.*
		47	31,0	22	48	54,0	50	15,0	54,02	1	0,0	43½ S	*Fomalhaut.*
		54	58,2	22	56	19,0	57	37,2	18,85	1	+0,13	14 N	β *Pegasi.*
		11	2,7	23	12	17,0	13	29,0	16,94	. .	. . .	24½ S	☽ 1 L. 6h 45′ 33″,42 mean Time.
		-	-	0	0	21,0	1	40,0	21,01	3	—0,03	15 N	α *Andromedæ.*
		3	59,0	0	5	12,5	6	25,0	12,71	3	0,17	14 N	γ *Pegasi.*
		16	58,0	0	18	37,0	20	11,0	36,85	5	0,04	56 S	α *Phœnicis.*
		34	32,0	0	35	48,0	37	2,0	48,02	. .	. . .	32½ S	β *Ceti.*
	28	-	-	15	16	34,3	17	49,2	- -	. .	. . .	- - -	☉ 1 L.
		17	37,0	*16	18	56,0	*20	10,0					☉ 2 L.
	29	Cloudy.											
	30	23	53,0	16	25	10,0	26	26,0	- -	. .	. . .	- - -	☉ 1 L.
		26	13,0	*16	27	31,2	*28	47,0					☉ 2 L.
		Western end of the Axis 0′,55 too high.											
		16	58,7	0	18	37,0	20	10,3	36,95	3	+ 0,02	56 S	α *Phœnicis.*
		26	16,2	0	28	14,7	30	11,0	14,9	6	—0,09	40 N	ζ *Cassiopeiæ.*
		29	30,5	0	31	36,0	33	40,0	36,37	6	+0,03	42½ N	α *Cassiopeiæ.*
		34	32,5	0	35	48,0	37	2,0	48,13	3	0,06	32½ S	β *Ceti.*
		44	48,0	0	47	10,0	49	29,0	10,0	. .	. . .	46½ N	γ *Cassiopeiæ.*
Dec.	1	-	-	10	-	-	33	5,9	- -	. .	. . .	- - -	☉ 2 L.
		Wound up the Clock: Arc of Vibration 1° : 37′.											
		47	30,0	22	48	55,0	50	15,5	54,85	4	+ 0,04	43½ S	*Fomalhaut.*
		54	59,0	22	56	19,0	57	38,0	19,25	4	0,13	14 N	β *Pegasi.*
		-	-	0	0	21,2	1	41,0	21,2	4	0,15	15 N	α *Andromedæ.*
		10	18,0	0	11	30,5	12	42,0	30,82	. .	. . .	23 S	ι *Ceti.*
	2	59	1,2	0	0	22,0	1	41,0	22,13	1	0,40	15 N	α *Andromedæ.*
		4	0,0	0	5	14,0	6	26,2	14,08	1	0,60	1½ N	γ *Pegasi.*
		10	18,5	0	11	31,0	12	42,0	31,19	1	0,33	23 S	ι *Ceti.*
		34	33,5	0	35	48,4	37	2,3	48,69	2	0,28	32½ S	β *Ceti.*
		44	49,0	0	47	11,0	49	29,0	11,01	2	0,33	46½ N	γ *Cassiopeiæ.*
	3	36	51,8	16	38	9,8	39	25,0	- -	. .	. . .	- - -	☉ 1 L.
		39	13,0	*16	40	31,2	*41	46,0					☉ 2 L.
		Eastern end of the Axis 0′,50 too high.											
	4	41	12,5	16	42	30,0	43	46,0	- -	. .	. . .	- - -	☉ 1 L.
		43	34,0	*16	44	52,0	*46	7,0					☉ 2 L.
		Axis level.											
		-	-	0	11	30,6	12	42,0	30,98	1	— 0,20	23 S	ι *Ceti.*
		26	17,4	0	28	16,0	30	11,0	15,95	4	+0,21	40 N	ζ *Cassiopeiæ.*
		29	30,0	0	31	38,0	33	40,0	38,20	2	0,25	42½ N	α *Cassiopeiæ.*
		34	33,0	0	35	49,2	37	3,0	49,14	2	0,33	32½ S	β *Ceti.*
		44	49,0	0	47	11,0	49	30,0	11,26	2	0,16	46½ N	γ *Cassiopeiæ.*

In the YEAR M.DCCCXVI.

DAY OF THE MONTH.	I. Wire. M S	MERIDIAN. H M S	III. Wire. M S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
DEC. 4		*LUNAR ECLIPSE (partial.)*						

Time by Clock. — *Apparent Time.*

Penumbra touched about	5h 15′ 30″	12h 29′ 32″,92
Beginning of the Eclipse	21 50	35 51,77
Grimaldus covered	32 10	46 9,90
Aristarchus covered	6 19 0	13 32 51,40
Copernicus covered	34 30	48 18,60
Mare Nubium wholly out	8 12 25	15 25 55,85
End of the Eclipse	20 32	34 1,41

The end of the Eclipse not very certain, owing to flying Clouds.

5	45 34,6	16 46 52,0	48 8,0							⊙ 1 L.
	47 55,4	*16 49 13,2	*50 29,3							⊙ 2 L.
	Western end of the Axis 0″,23 too high.									
	29 31,0	0 31 38,0	33 41,0	37,91	1	+0,33	42½ N			α *Cassiopeiæ.*
	34 33,0	0 35 49,0	37 2,0	48,79	1	0,40	32½ S			β *Ceti.*
	59 30,0	1 0 57,2	2 22,0	57,22	..	...	21½ N			β *Andromedæ.*
	30 4,2	1 32 19,0	34 31,2	19,33	..	...	71½ S			*Achernar.*
6	49 56,0	16 51 13,6	52 30,0							⊙ 1 L.
	52 17,5	*16 53 35,2	*54 51,3							⊙ 2 L.
	Eastern end of the Axis 0″,02 too high.									
7	54 18,5	16 55 36,3	56 52,0							⊙ 1 L.
	56 40,0	*16 57 58,0	*59 14,0							⊙ 2 L.
	Western end of the Axis 0″,18 too high.									
	59 1,0	0 0 23,0	1 42,0	22,83	5	+0,12	15 N			α *Andromedæ.*
	4 1,0	0 5 15,2	6 27,0	15,13	5	0,20	14 N			γ *Pegasi.*
	- -	0 11 32,0	13 42,8	32,08	3	0,37	23 S			ι *Ceti.*
	- -	0 28 16,0	30 11,5	16,0	3	0,05	40 N			ζ *Cassiopeiæ.*
	34 33,4	0 35 49,0	37 3,0	49,14	2	0,24	32½ S			β *Ceti.*
8	58 41,2	16 59 59,0	1 15,0							⊙ 1 L.
	1 2,0	*17 2 20,2	*3 36,2							⊙ 2 L.
	Western end of the Axis 0″,20 too high.									
	17 0,0	0 18 38,0	- -	38,0	8	+0,14	56 S			α *Phœnicis.*
	29 30,8	0 31 39,0	33 41,5	38,97	3	0,14	42½ N			α *Cassiopeiæ.*
	44 49,5	0 47 11,4	49 30,0	11,59	3	0,10	46½ N			γ *Cassiopeiæ.*
	59 30,0	1 0 57,0	2 22,4	57,22	3	0,02	21½ N			β *Andromedæ.*
9	- -	17 4 22,2	5 38,7							⊙ 1 L.
	5 26,0	17 6 44,0	7 59,3	33,19	1	0,02	- - -			⊙ 2 L.
	30 4,0	1 32 19,0	34 31,0	19,23	4	0,03	71½ S			*Achernar.*
	42 45,0	1 44 6,3	45 26,0	6,48	..	...	15½ N			α *Triang. Maj.*
	44 49,0	1 45 58,2	47 10,0	57,90	..	...	7 N			β *Arietis.*
	52 33,0	1 54 9,0	55 42,0	8,93	..	...	28½ N			γ *Andromedæ.*
	57 1,0	1 58 18,6	59 34,0	18,60	..	...	9½ N			α *Arietis.*
10	7 27,5	17 8 45,6	10 1,6							⊙ 1 L.
	9 49,0	17 11 7,2	12 23,3	56,45	1	0,64	- - -			⊙ 2 L.

In the YEAR M.DCCCXVI.

DAY OF THE MONTH.	I. Wire. M S	MERIDIAN. H M S	III. Wire. M S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
DEC. 11	11 53,0	17 13 10,0	14 26,0	20,71	1	0,14	- - -	⊙ 1 L.
	14 13,2	17 15 31,4	16 48,0					⊙ 2 L.
12	Cloudy.							
13	20 41,5	17 21 59,0	23 15,0	10,18	2	0,22	- - -	⊙ 1 L.
	23 2,6	17 24 21,2	25 37,3					⊙ 2 L.
14	25 6,0	17 26 24,0	27 40,3	35,41	1	0,27	- - -	⊙ 1 L.
	27 28,5	17 28 46,2	30 3,0					⊙ 2 L.
	10 17,0	0 11 29,5	12 41,0	29,71	7	0,31	23 S	ι *Ceti.*
	26 16,0	0 28 15,0	30 10,0	14,85	7	0,16	40 N	ζ *Cassiopeiæ.*
	59 28,8	1 0 56,0	- -	55,86	6	0,18	21½ N	β *Andromedæ.*
	30 3,0	1 32 18,0	34 30,0	18,23	5	0,20	71½ S	*Achernar.*
	52 32,0	1 54 8,0	55 41,0	7,93	5	0,20	28½ N	γ *Andromedæ.*
	57 0,0	1 58 17,6	59 33,0	17,60	5	0,20	9½ N	α *Arietis.*
15	29 31,0	17 30 49,0	32 6,0	1,12	1	0,09	- - -	⊙ 1 L.
	- -	17 33 11,2	34 29,0					⊙ 2 L.
	3 59,0	0 5 13,0	6 25,0	13,0	8	0,26	1½ N	γ *Pegasi.*
	10 17,0	0 11 30,0	12 41,0	30,07	1	+0,17	23 S	ι *Ceti.*
	26 15,6	0 28 14,6	30 10,0	14,55	1	−0,27	40 N	ζ *Cassiopeiæ.*
	34 32,0	0 35 47,7	- -	47,99	8	0,17	32½ S	β *Ceti.*
	30 2,6	1 32 18,0	34 29,6	18,03	1	0,27	71½ S	*Achernar.*
	42 43,0	1 44 5,0	45 24,2	4,88	6	0,29	15½ N	α *Triang. Maj.*
	Wound up the Clock: Arc of Vibration 1°: 37'.							
16	33 57,0	17 35 14,8	36 31,0	26,01	1	1,11	- - -	⊙ 1 L.
	36 19,0	17 37 37,0	38 54,0					⊙ 2 L.
	3 59,0	0 5 13,0	6 24,8	12,98	1	0,07	1½ N	γ *Pegasi.*
	10 16,3	0 11 29,5	12 40,6	29,54	1	0,53	23 S	ι *Ceti.*
	16 57,0	0 18 35,8	20 12,0	35,85	8	0,33	56 S	α *Phœnicis.*
	59 28,0	1 0 55,2	2 20,0	55,12	2	0,40	21½ N	β *Andromedæ.*
	42 43,0	1 44 5,0	45 24,0	4,93	1	0,07	15½ N	α *Triang. Maj.*
	44 41,0	1 45 57,0	47 11,0	57,05	1	0,60	7 N	β *Arietis.*
	52 31,0	1 54 7,0	55 40,0	6,93	2	0,50	28½ N	γ *Andromedæ.*
17	38 22,5	17 39 41,0	40 57,0	52,20	1	0,11	- - -	⊙ 1 L.
	40 45,0	17 42 3,2	43 20,0					⊙ 2 L.
	58 59,0	0 0 20,0	1 39,2	20,37	10	0,26	15 N	α *Andromedæ.*
	3 59,0	0 5 12,7	6 24,0	12,63	1	0,37	1½ N	γ *Pegasi.*
	10 16,7	0 11 29,0	12 40,0	29,24	1	0,23	23 S	ι *Ceti.*
	16 57,8	0 18 36,0	20 12,0	36,15	1	+0,33	56 S	α *Phœnicis.*
	26 15,0	0 28 14,0	30 9,2	13,90	2	−0,33	40 N	ζ *Cassiopeiæ.*
	34 31,5	0 35 47,0	37 1,0	47,17	2	0,30	32½ S	β *Ceti.*
	52 31,0	1 54 7,0	55 39,7	6,86	1	0,10	28½ N	γ *Andromedæ.*
	56 50,0	1 58 16,0	59 32,0	16,30	3	0,40	9½ N	α *Arietis.*
18	42 49,0	17 44 6,8	45 23,3	18,34	1	0,26	- - -	⊙ 1 L.
	45 11,5	17 46 29,0	47 46,0					⊙ 2 L.
	- -	0 35 47,0	37 0,6	47,01	1	0,20	32½ S	β *Ceti.*
19	47 15,0	17 48 33,4	49 50,0	44,83	1	0,11	- - -	⊙ 1 L.
	49 38,0	17 50 55,8	52 12,3					⊙ 2 L.
	10 16,0	0 11 29,0	12 39,7	28,99	2	0,17	23 S	ι *Ceti.*
	16 56,7	0 18 35,5	20 11,2	35,43	2	0,40	56 S	α *Phœnicis.*
	34 31,0	0 35 47,0	37 0,7	46,97	1	+0,05	32½ S	β *Ceti.*
	- -	1 45 56,4	47 10,6	56,47	3	−0,17	7 N	β *Arietis.*
	52 31,0	1 - -	55 40,0	6,87	2	+0,05	28½ N	γ *Andromedæ.*
	56 59,0	1 58 16,0	59 32,0	16,30	2	0,0	9½ N	α *Arietis.*
20	51 42,0	17 53 0,0	54 16,0	11,61	1	0,08	- - -	⊙ 1 L.
	54 5,0	17 55 23,0	56 39,2					⊙ 2 L.
	16 57,0	0 18 35,8	20 11,0	35,66	1	0,13	56 S	α *Phœnicis.*
	29 28,6	0 31 35,0	33 38,0	34,75	1	0,20	42½ N	α *Cassiopeiæ.*

In the YEAR M.DCCCXVI.

DAY OF THE MONTH.	I. Wire.	MERIDIAN.	III. Wire.	Reduction of Wires.	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
	M S	H M S	M S	S				
Dec. 20	- -	0 35 47,0	37 0,6	47,01	1	— 0,05	32½ S	β *Ceti.*
21	56 9,0	17 57 27,3	58 44,0					
	58 31,0	17 59 50,0	1 6,0	38,63	1	+0,22	- - -	⊙ 1 L.
	26 15,0	0 28 14,2	30 9,0	13,95	4	0,0	40 N	⊙ 2 L.
	29 28,2	0 31 35,0	33 38,3	34,75	1	—0,03	42½ N	ζ *Cassiopeiæ.*
	34 31,0	0 35 47,0	37 0,3	46,84	1	+0,15	32½ S	α *Cassiopeiæ.*
	42 43,0	1 44 4,5	45 21,0	4,58	2	0,09	15½ N	β *Ceti.*
	52 31,0	1 - -	55 40,0	6,87	2	0,0	28½ N	α *Triang. Maj.*
	56 59,0	1 58 16,7	59 32,0	16,65	1	0,23	9½ N	γ *Andromedæ.*
								α *Arietis.*
22	0 35,2	18 1 54,0	3 11,0					
	2 58,0	18 4 17,0	5 33,0	5,45	1	0,02	- - -	⊙ 1 L.
	29 28,5	0 31 35,0	33 38,3	34,82	1	0.10	42½ N	⊙ 2 L.
	59 27,7	1 0 55,0	2 20,0	55.04	6	—0,03	21½ N	α *Cassiopeiæ.*
	42 43,0	1 44 4,2	45 21,0	4,43	1	0,10	15½ N	α *Andromedæ.*
	44 41,0	1 45 57,0	47 11,0	57,05	3	+0,11	7 N	α *Triang. Maj.*
	52 31,0	1 54 7,0	55 40,0	6,93	1	0,0	28½ N	β *Arietis.*
	56 59,0	1 58 17,0	59 32,3	16,88	1	0,20	9½ N	γ *Andromedæ.*
								α *Arietis.*
23	5 9,6	18 6 20,5	7 37,0					
	7 25,0	18 8 43,0	10 0,0	32,10	1	—0,15	- - -	⊙ 1 L.
	59 28,0	1 0 55,9	2 20,0	55,12	1	+0,10	21½ N	⊙ 2 L.
	42 43,0	1 44 5,0	45 24,6	4,98	1	0,47	15½ N	β *Andromedæ.*
	44 41,0	1 45 57,0	47 11,0	57,05	1	0,0	7 N	α *Triang. Maj.*
	52 31,7	1 54 7,0	55 40,0	7,11	1	0,23	28½ N	β *Arietis.*
	56 59,2	1 58 17,0	59 33,0	17,10	1	0,30	9½ N	γ *Andromedæ.*
								α *Arietis.*
24	- -	18 10 48,3	12 5,0					
	11 52,0	18 13 10,2	14 27,0	59,29	1	0,49	- - -	⊙ 1 L.
	31 31,7	0 35 48,0	37 1,0	47,72	3	0,20	32½ S	⊙ 2 L.
	59 28,0	1 0 55,6	2 20,0	55,42	1	0,20	21½ N	β *Ceti.*
	30 1,5	1 32 17,2	34 29,0	16,82	9	0,09	71½ S	β *Andromedæ.*
								Achernar.
25	13 56,0	18 - - -	- -					
	- -	18 17 37,0	18 54,0	26,06	1	0,07	- - -	⊙ 1 L.
	59 27,8	1 0 55,2	2 20,5	55,29	1	—0,03	21½ N	⊙ 2 L.
	52 31,0	1 54 6,7	55 40,0	6,78	2	0,16	28½ N	β *Andromedæ.*
								γ *Andromedæ.*
26	18 24,0	18 19 41,5	20 58,0					
	20 46,0	18 22 4,2	23 20,0	53,03	1	+0,37	- - -	⊙ 1 L.
	42 44,0	1 44 5,0	45 23,0	5,33	3	0,16	15½ N	⊙ 2 L.
	44 42,0	1 45 57,8	47 12,0	57,90	3	0,31	7 N	α *Triang. Maj.*
	52 32,0	1 54 8,0	55 40,0	7,20	1	0,77	28½ N	β *Arietis.*
	57 0,0	1 58 16,8	59 33,0	16,61	3	0,11	9½ N	γ *Andromedæ.*
								α *Arietis.*
27	- -	18 24 8,8	25 25,0					
	25 12,5	18 26 30,0	27 47,0	19,63	1	0,30	- - -	⊙ 1 L.
	5 38,0	1 6 50,0	8 1,2	49,70	..	. . .	10½ S	⊙ 2 L.
	44 41,3	1 45 57,7	47 12,5	57,85	1	—0,10	7 N	☽ 1 L. 6ʰ 41′ 48″,90 mean Time.
	52 32,5	1 54 8,2	55 40,7	8,08	1	+0,47	28½ N	β *Arietis.*
	57 0,0	1 58 17,5	59 33,8	17,60	1	0,38	9½ N	γ *Andromedæ.*
								α *Arietis.*
28	27 16,0	18 28 35,0	29 52,0					
	29 39,0	18 30 57,2	32 13,3	45,83	1	0,0	- - -	⊙ 1 L.
	49 48,5	1 51 0,0	52 5,0	0,0	..	. . .	5½ S	⊙ 2 L.
	- -	1 54 8,0	55 41,0	8,10	1	0,03	28½ N	☽ 1 L. 7ʰ 21′ 56″,32 mean Time.
	57 0,2	1 58 17,8	59 33,0	17,75	1	0,07	9½ N	γ *Andromedæ.*
	10 55,0	3 12 44,4	14 31,0	44,37	..	. . .	36½ N	α *Arietis.*
								α *Persei.*
29	31 43,0	18 32 59,8	34 17,2					
	34 5,0	18 - - -	36 40,0	12,42	1	0,59	- - -	⊙ 1 L.
	35 32,2	2 36 47,0	38 0,0	47,07	..	. . .	½ S	⊙ 2 L.
								☽ 1 L. 8ʰ 3′ 40″,0 mean Time.
30	36 9,3	18 37 26,0	38 43,2					
	38 30,0	18 39 49,0	41 6,0	37,61	1	—0,51	- - -	⊙ 1 L.
	57 0,2	1 58 18,0	59 33,0	17,85	2	+0,03	9½ N	⊙ 2 L.
	56 10,0	2 57 43,4	59 15,0	43,70	2	0,15	27½ N	α *Arietis.*
								β *Cap. Med.*

In the YEAR M.DCCCXVI.

DAY of the MONTH.	I. Wire. M	S	MERIDIAN. H	M	S	III. Wire. M	S	Reduction of Wires. S	No. of Days	Rate of Clock.	Zenith Distance.	*Names or Characters* of the STARS AND PLANETS.
DEC. 30	10	55,4	3	12	45,0	14	32,0	45,02	2	+0,33	36¼ N	*α Persei.*
	23	51,3	3	25	8,0	26	22,0	7,91	..	...	4¼ N	☽ 1 L. 8h 47′ 57″,66 mean Time.
31	40	35,0	18	41	52,0	43	8,8					☉ 1 L.
	42	56,0	18	44	14,5	45	31,0	3,38	1	0,37	- - -	☉ 2 L.
	56	9,8	2	57	44,0	59	15,2	44,0	1	0,20	27⅔ N	*β Cap. Med.*
	10	55,0	3	12	45,0	14	31,5	44,80	1	—0,30	36¼ N	*α Persei.*

Wound up the Clock: Arc of Vibration 1°: 38′.

OF THE

LATITUDE

OF THE

MADRAS OBSERVATORY.

By OBSERVATIONS with the SEXTANT and ARTIFICIAL HORIZON.

Northern Stars.				Southern Stars.			
α Cephei . . .	13°	4′	12″,4	Canopus. . . .	13°	3′	57″,5
α Cephei . . .		4	6,9	α Columb. Noach.		4	10,4
α Cephei . . .		4	21,9	Canopus. . . .		4	4,5
α Cephei . . .		4	15,1	α Columb. Noach.		4	0,0
α Cephei . . .		4	22,9	Fomalhaut. . .		4	3,9
α Cephei . . .		4	22,9	α Gruis		4	11,8
β Cephei . . .		4	12,8	Fomalhaut. . .		4	2,1
δ Cygni. . . .		4	17,8	* β Gruis		4	16,1
β Cephei . . .		4	11,0	* β Ceti		3	53,3
α Cassiopeiæ . .		4	9,9	β Phœnicis . . .		4	5,1
γ Cassiopeiæ . .		4	5,5	* Achernar . . .		3	56,5
δ Cassiopeiæ . .		4	19,6	β Phœnicis . . .		4	4,9
α Cassiopeiæ . .		4	2,5	* γ Phœnicis . . .		4	17,5
γ Cassiopeiæ . .		4	5,5	* β Phœnicis . . .		4	15,6
δ Cassiopeiæ . .		4	9,8	* γ Phœnicis . . .		4	18,0
α Cassiopeiæ . .		4	12,5	β Phœnicis . . .		4	4,8
γ Cassiopeiæ . .		4	10,2	γ Phœnicis . . .		4	2,3
* Pole Star. . .		3	59,5	Achernar . . .		3	53,2
δ Cassiopeiæ . .		4	9,5	α Phœnicis . . .		4	13,7
* β Cassiopeiæ . .		4	21,9	β Phœnicis . . .		4	14,2
* α Cassiopeiæ . .		4	0,4	γ Phœnicis . . .		4	6,7
γ Cassiopeiæ . .		4	11,2		13	4	6,3
Mean	13	4	11,86			4	11,86
				Medium	13	4	9,08

Rejecting those Results which differ 10′ or more from the Mean, and which are marked *, the Mean Latitude will be 13 : 4 : 8,606.

By OBSERVATIONS with the SMALL CIRCULAR INSTRUMENT.

GRADUATED FACE of the INSTRUMENT.

East.				*West.*			
β Arietis . . .	13°	4′	33″,4	* α Ceti	13°	4′	3″,6
* α Arietis . . .		4	43,9	* Rigel		3	45,6
β Arietis . . .		4	33,8	* ε Orionis . . .		4	5,2
* α Arietis . . .		4	21,9	α Arietis . . .		3	57,9
Rigel. . . .		4	28,4	α Ceti		3	55,6
* ζ Tauri. . . .		4	18,8	β Arietis . . .		3	57,1
α Orionis . . .		4	25,6	α Arietis . . .		3	46,5
Aldebaran. . .		4	30,9	Rigel. . . .		3	47,8
α Orionis . . .		4	31,6	β Tauri . . .		3	47,8
Rigel. . . .		4	25,8	ε Orionis . . .		3	58,2
β Tauri . . .		4	37,8	α Orionis* . . .		3	48,1
Mean	13	4	30,54	Mean	13	3	53,95
						4	30,54
						4	12,25

Rejecting those marked * which differ 8′ or more from the Mean, the Latitude will be 13 : 4 : 11,894.

SMALL CIRCULAR INSTRUMENT.

SUN N. OF THE ZENITH.

Face East.			*Face West.*		
13°	4′	17′,9	13°	4′	8′,0
	4	24,7		4	7,0
	4	5,7		4	12,7
	4	5,9		4	9,0
	4	15,9		4	9,1
	4	2,4		4	1,1
	4	2,2		4	6,7
	4	26,6		4	7,5
	4	0,7		4	8,1
	4	11,9		3	53,0
	4	5,1		4	7,8
	4	2,7		3	50,9
	4	10,4		3	57,6
	4	3,3		4	2,6
	4	4,9		3	52,3
Mean	13	4 9,35		13	4 3,56

SMALL CIRCULAR INSTRUMENT.

SUN S. OF THE ZENITH.

Face East.			*Face West.*		
13°	3′	58′,3	13°	4′	13′,2
	4	2,4		4	11,3
	4	9,6		4	12,0
	3	58,7		4	3,5
	4	14,7		4	4,3
	4	4,6		3	56,8
	4	10,8		4	5,4
	4	0,5		4	11,8
	4	11,7		4	1,9
	3	56,2		4	4,4
	4	0,4			
	4	3,4			
	3	58,0			
	4	2,5			
	4	2,8			
	4	5,0			
	13	4 3,99		13	4 6,46
⊙ N. of the Zenith		4 9,55	⊙ N. of the Zenith		4 3,56
	13	4 6,52		13	4 5,01
			Face E.		4 6,32
			Medium	13	4 5,67

Rejecting those marked * which differ 8′ or more from the Mean, the Latitude will be 13 : 4 : 5,363.

SMALL CIRCULAR INSTRUMENT.

STARS N. OF THE ZENITH.

Face East.				*Face West.*			
* γ Gemino	13°	4′	2,4	* Castor	13°	3′	39′,5
Pollux		4	15,5	Pollux	13	3	55,4
* β Tauri		4	21,4	β Tauri		3	51,9
Pollux		4	11,4	Pollux		3	49,6
γ Gemino		4	3,6	γ Gemino		3	44,8
Pollux		4	18,3				
Castor		4	7,6				
Pollux		4	11,7				
γ Gemino		4	13,3				
Mean	13	4	11,69		13	3	47,84

SMALL CIRCULAR INSTRUMENT.

STARS S. OF THE ZENITH.

Face East.				*Face West.*			
ϑ Orionis . . .	13°	4′	24″,7	ϑ Orionis . . .	13°	4′	4″,5
ε Orionis . . .		4	20,1	κ Orionis . . .		3	56,2
κ Orionis . . .		4	21,2	ε Orionis . . .		3	56,4
α Orionis . . .		4	12,9	* ζ Orionis . . .		4	9,3
ε Orionis . . .		4	24,2	κ Orionis . . .		3	57,3
* α Orionis . . .		4	7,8	Rigel . . .		4	1,2
				ϑ Orionis . . .		4	2,0
				ε Orionis . . .		4	5,3
	13	4	18,48		13	4	1,53
N. of the Zenith		4	11,69	N. of the Zenith		3	47,84
Mean	13	4	15,09		13	3	54,69
						4	15,09
				Medium	13	4	4,89

Rejecting those marked * which differ 8′ or more from the Mean, the Latitude will be 13 : 4 : 6,770.

SMALL CIRCULAR INSTRUMENT.

STARS NEAR THE ZENITH.

All being South of it.

Face East.				*Face West.*			
Regulus . .	13°	4′	20″,0	Regulus . .	13°	3′	53″,8
* Regulus . .		4	21,5	Regulus . .		3	54,9
Regulus . .		4	19,1	Regulus . .		3	56,7
γ Aquilæ . .		4	5,1	Regulus . .		4	1,3
γ Aquilæ . .		4	15,7	α Aquilæ . . .		4	4,4
α Aquilæ . .		4	8,5	β Aquilæ . . .		4	10,5
* α Aquilæ . .		4	4,7	* β Aquilæ . . .		4	10,7
α Aquilæ . .		4	8,2	γ Aquilæ . . .	*	4	10,6
Mean	13	4	12,85		13	4	2,86
				Face E.		4	12,85
				Medium	13	4	7,86

Rejecting those marked *, the Latitude will be 13 : 4 : 7,917.

CORRESPONDENT OBSERVATIONS AT GREENWICH.

LATITUDE OF THE ROYAL OBSERVATORY 51° 28′ 40″ N.

Day.		True Zenith Dist. of Centre at Greenwich.			Madras.			Face of Instrument.	Distance of the Zeniths nearly.			Latitude of Madras nearly.			Correction for Variation in Declination			True Latitude.		
1794																				
April	25	38°	7′	46″,2	+ 0°	12′	14″,5	E	38°	20′	0″,7	13°	8′	39″,3	—	4′	21″,6	13°	4′	17″,7
	28	37	10	27,9	— 1	9	41,1	W	38	20	9,0	13	8	31,0		4	12,9		4	18,1
May	3	35	39	41,9	+ 2	40	58,0	E	38	20	39,9	13	8	0,1		3	56,3		4	3,8
	4	35	22	17,1	+ 2	58	17,5	W	38	20	34,6	13	8	5,4		3	52,8		4	12,6
June	23	28	1	47,2	+ 10	22	57,0	E	38	24	44,2	13	3	55,8	+		9,4		4	5,2
	24	28	2	54,0	+ 10	21	55,8	E	38	24	49,8	13	3	50,2			15,0		4	5,2
	26	28	6	16,3	+ 10	18	32,0	W	38	24	48,3	13	3	51,7			26,1		4	17,8
	25	28	4	22,6	+ 10	20	24,0	W	38	24	46,6	13	3	53,4			20,5		4	13,9
August	29	42	15	12,4	— 3	46	5,0	E	38	29	7,4	12	59	32,6	+	4	46,4		4	19,0
December	13	74	41	4,5	— 36	15	31,8	W	38	25	32,7	13	3	7,3	+		53,8		4	1,1
	17	74	52	26,6	— 36	27	30,1	W	38	24	56,5	13	3	43,5	+		28,8		4	12,3
	18	74	54	7,2	— 36	29	15,9	E	38	24	51,3	13	3	48,7			22,5		4	11,2
	19	74	55	22,8	— 36	30	57,3	E	38	24	45,5	13	3	54,5			16,1		4	10,6
	21	74	56	23,1	— 36	31	44,4	E	38	24	38,7	13	4	1,3	+		3,6		4	4,9
	25	74	52	42,0	— 36	28	34,7	E	38	24	7,3	13	4	32,7	—		21,9		4	10,8

RESULTS.

GRADUATED FACE OF THE INSTRUMENT.

	East.				*West.*		
	13°	4′	17″,7		13°	4′	18″,1
		4	3,8			4	12,6
		4	5,2			4	17,8
		4	5,2			4	13,9
*		4	19,0	*		4	1,1
		4	11,2			4	12,3
		4	10,6			...	..
		4	4,9			...	..
		4	10,8			...	..
Mean	13	4	9,82		13	4	12,64
						4	9,82
				Medium	13	4	11,23

Rejecting those marked *, the Latitude will be 13: 4: 11,163.

THE LATITUDE OF THE MADRAS OBSERVATORY BY THE FOREGOING OBSERVATIONS.

		No. of Observations.	*Latitude.*		
1793	By Observations of Stars with the Sextant	43	13°	4′	9″,08
,,	By ,, of ,, with the Small Circular Instrument	22		4	12,25
1794	By ,, of ,, with ,, ,, ,,	28		4	4,89
,,	By ,, of Zeniths with ,, ,, ,,	16		4	7,86
,,	By ,, of the Sun with ,, ,, ,,	56		4	5,67
,,	By Correspondent Observations at Greenwich of the Sun	15		4	11,23
1803	By Observations of Stars with the Zenith Sector	31		4	11,95
,,	By ,, of the Sun with the ,,	21		4	5,15
	Medium Latitude by 232 Observations		13	4	8,5 N

THE MEAN OF THE OBSERVATIONS.

With the Zenith Sector	13°	4′	8″,55
,, Circular Instrument.	13	4	8,4
,, Circular Instrument and Sextant	13	4	8,5

THE OBSERVATIONS being so numerous, I have rejected those Results which differ more from the Mean than the power of the Instrument would seem to warrant, as will be seen on an examination of the foregoing pages. The Latitude by the different Instruments will then stand thus:

By Observations with the Sextant					13°	4′ 8″,606
With the Circular Instrument, Stars North and South of the Zenith ...	13°	4	11,894			
,, ,, second set.		4	6,770			
					13	4 9,332
Stars near the Zenith					13	4 7,917
Correspondent Observations of the Sun at Greenwich ...					13	4 11,163
Observations of the Sun					13	4 5,363
Mean by the Circular Instrument and Sextant ..					13	4 8,476
With the Zenith Sector *						
Stars North and South of the Zenith	13°	4′	11″,95			
Sun	13	4	5,15		13	4 8,550
				Mean Latitude	13	4 8,513

Or nearly the same as before.

* The original Observations taken by myself with the Zenith Sector are not to be found in the Observatory—the book containing them having been destroyed, it is supposed, during the Storm which occurred while I was in England. The *Sector* was that used in the Trigonometrical Survey; and was borrowed by me for a short time, *from Colonel Lambton.* J. G.

During my absence in England, I find the *Zenith Sector* was again brought to the Observatory. The Observations will be given in another part of this Volume; and the following were the *Results* as computed at the time.

By the Stars.

In Table II. (Observatory records)	13° 4′ 15″,074		
Table III. ,,	13 4 13,717		
Mean by the Stars.	13	4	14,395
,, by the Sun.	13	4	5,483
Mean of both	13	4	9,939

Corrections having been made in the TABLES, particularly in those of the DECLINATION OF STARS, I have had the Observations for the *Latitude* recomputed, and the following Tables exhibit the RESULTS.

OBSERVATIONS WITH THE SEXTANT RECOMPUTED.

1793. Month.		Names of Stars.	True Zenith Distances.	Declination used before.	Declination now used.	Latitude.
February	8	Canopus	65° 39′ 42″,11	52° 35′ 42″,9	52° 35′ 42″,9	13° 3′ 59″,21
		Sirius *	29 30 43,24	16 26 52,5	16 26 53,46	13 3 49,78
		γ Canis Maj.	41 58 31,5	28 54 47,0	28 54 51,04	13 3 40,46
	11	α Columbæ	47 16 9,09	34 11 57,6	34 11 57,57	13 4 11,52
		Canopus	65 39 49,98	52 35 43,6	52 35 43,57	13 4 6,41
		Sirius *	29 30 40,91	16 26 52,9	16 26 53,86	13 3 47,05
September	12	α Columbæ	47 15 58,83	34 11 57,9	34 11 57,76	13 4 1,07
		α Cygni *	31 28 35,41	44 33 17,1	44 33 16,71	13 4 41,39
		α Cephei *	48 39 1,08	61 43 12,4	61 43 11,91	13 4 10,13
		α Gruis	61 1 32,13	47 56 53,4	47 56 51,28	13 4 37,85
		β Gruis	61 1 41,24	47 57 20,9	47 57 22,66	13 4 18,58
		Fomalhaut *	43 46 34,02	30 42 29,4	30 42 33,79	13 4 0,23
	21	α Cephei *	48 39 9,34	61 43 15,0	61 43 13,83	13 4 4,49
	23	α Cygni *	31 28 33,04	44 33 20,1	44 33 18,99	13 4 45,95
		α Cephei *	48 38 54,38	61 43 15,4	61 43 14,32	13 4 19,54
		α Gruis	61 1 9,78	47 56 55,9	47 56 55,32	13 4 14,46
		β Gruis	61 1 54,14	47 57 22,9	47 57 24,68	13 4 29,16
		Fomalhaut *	43 46 34,18	30 42 31,4	30 42 35,23	13 3 58,55
October	1	α Cygni *	31 28 47,95	44 33 21,1	44 33 20,21	13 4 52,26
		α Cephei *	48 39 3,65	61 43 17,4	61 43 16,28	13 4 12,63
		α Gruis	61 1 27,07	47 56 57,4	47 56 57,25	13 4 20,82
		β Gruis	61 1 46,4	47 57 24,9	47 57 27,84	13 4 18,56
		Fomalhaut *	43 47 6,61	30 42 32,2	30 42 36,79	13 4 20,82
	3	α Cygni *	31 28 57,96	44 33 21,2	44 33 21,25	13 4 23,29
		α Cephei *	48 38 56,22	61 43 17,9	61 43 16,73	13 4 20,56
		α Gruis	61 1 22,22	47 56 57,1	47 56 56,95	13 4 25,27
		β Gruis	61 1 41,5	47 57 24,1	47 57 28,57	13 4 12,93
	4	α Cygni *	31 28 42,99	44 33 21,3	44 33 20,44	13 4 37,45
		α Cephei *	48 38 56,28	61 43 17,9	61 43 16,41	13 4 20,13
		β Cephei *	56 35 34,14	69 39 45,85	69 39 47,78	13 4 13,64
	5	δ Cygni		44 38 24,5	44	
		α Cygni *	31 28 42,49	44 33 21,3	44 33 20,48	13 4 37,99
		α Cephei *	48 38 56,75	61 34 18,0	61 43 16,85	13 4 26,10
		β Cephei *	56 35 36,11	69 39 46,1	69 39 48,02	13 4 11,91
		β Capricorni	30 6 53,23	17 3 3,7	17 3 0,82	13 3 59,41
		α Gruis	61 1 34,31	47 56 57,0	47 56 56,87	13 4 37,44
November	19	α Cassiopeiæ *	42 20 24,77	55 24 32,7	55 24 26,57	13 4 1,80
		β Ceti	32 11 14,35	19 7 20,0	19 7 21,08	13 3 52,37
		γ Cassiopeiæ	46 31 57,77	59 36 2,1	59 35 59,06	13 4 1,23
		β Phœnicis	60 53 48,09	47 49 40,7	47 49 41,10	13 4 6,99
		δ Cassiopeiæ	46 5 26,78	59 9 45,6	59 9 39,05	13 4 12,27
		Achernar	71 21 30,10	58 17 31,5	58 17 31,74	13 3 58,36
	21	β Cassiopeiæ	44 56 39,75	58 1 7,9	58 1 6,55	13 4 26,80
		α Cassiopeiæ *	42 20 39,49	55 24 34,0	55 24 26,98	13 3 54,49
		γ Cassiopeiæ	46 31 58,02	59 36 2,2	59 35 59,97	13 4 1,25
		Pole Star *	75 9 3,8	88 12 40,5	88 12 36,57	13 3 32,77
		β Phœnicis	60 53 48,18	47 49 41,1	47 49 41,39	13 4 6,79
		δ Cassiopeiæ	46 5 37,08	59 9 45,8	59 9 44,46	13 4 7,38
		γ Phœnicis	57 27 0,88	44 22 41,9	44 22 41,67	13 4 12,21
		Achernar	71 21 15,91	58 17 32,2	58 17 32,34	13 3 43,57
	22	β Cassiopeiæ	44 56 47,40	58 1 0,8	58 1 6,60	13 4 19,20
		α Phœnicis	56 29 53,02	43 25 22,9	43 25 22,94	13 4 30,08
		α Cassiopeiæ *	42 20 22,55	55 24 34,2	55 24 27,03	13 4 4,48
		β Ceti	32 10 44,62	19 7 19,8	19 7 21,82	13 3 22,80
		γ Cassiopeiæ	46 31 53,16	59 36 2,3	59 35 59,02	13 4 0,90
		Pole Star *	75 8 44,22	88 12 40,6	88 12 36,62	13 3 52,40
		β Phœnicis	60 53 58,84	47 49 41,1	47 49 41,44	13 4 17,40
		δ Cassiopeiæ	46 5 37,22	59 9 45,9	59 9 44,51	13 4 7,29
		γ Phœnicis	57 27 1,19	44 22 42,0	44 22 41,82	13 4 19,37
		Achernar	71 21 11,32	58 17 32,5	58 17 32,99	13 3 39,03
	23	β Phœnicis	60 53 48,34	47 49 41,4	47 49 41,69	13 4 6,65
		γ Phœnicis	57 26 45,74	44 22 42,2	44 22 41,97	13 4 3,77
		Achernar	71 21 28,2	58 17 32,8	58 17 32,94	13 3 55,26

The Declination of those Stars marked with an *, are taken from the Table in the Nautical Almanac for 1825.

OBSERVATIONS WITH THE SEXTANT RECOMPUTED, *continued*.

1793. Month.	Names of Stars.	True Zenith Distances.	Declination used before.	Declination now used.	Latitude.
November 26	β Cassiopeiæ	41° 56′ 47″,18	58° 1′ 8″,5	58° 1′ 7″,12	13° 4′ 19″,94
	α Phœnicis	56 29 37,70	43 25 23,3	43 25 23,52	13 4 14,18
	α Cassiopeiæ *	42 20 34,96	55 24 34,5	55 24 31,10	13 3 56,14
	β Ceti	32 10 54,48	19 7 20,9	19 7 22,80	13 3 31,68
	γ Cassiopeiæ	46 31 52,94	59 36 3,2	59 36 0,24	13 4 10,90
	Pole Star *	75 8 13,35	88 12 41,9	88 12 36,94	13 4 23,59
	β Phœnicis	60 53 58,47	47 49 42,1	47 49 42,4	13 4 16,07
	γ Phœnicis	57 26 51,18	44 22 42,9	44 22 42,71	13 4 8,47
	Achernar	71 21 25,9	58 17 33,2	58 17 33,39	13 3 52,51

RESULTS,

Those which differ more than 15″ from the general Mean having been rejected.

NORTHERN STARS.		SOUTHERN STARS.	
α Cygni... ...	13° 4′ 23″,29	Canopus... ...	13° 3′ 59″,21
α Cephei.. ...	10,13		4 6,41
	4,49	α Columbæ.... ..	11,52
	19,54		1,07
	12,63	α Gruis	14,46
	20,56	β Gruis	18,58
	20,13		18,56
	26,10		12,93
β Cephei.. ...	13,64	Fomalhaut. . .	0,23
	11,91		3 58,55
α Cassiopeiæ . .	1,80	ζ Capricorni . . .	52,41
	4,43	β Ceti.	52,37
γ Cassiopeiæ . . .	1,29	β Phœnicis	4 6,99
	1,25		6,78
	9,90		17,40
	10,90		6,65
δ Cassiopeiæ . . .	12,27		16,07
	7,38	Achernar	3 58,96
	7,29		55,26
β Cassiopeiæ . . .	26,80		52,51
	19,20	γ Phœnicis.. . .	4 19,21
	19,94		19,37
			3,77
			8,47
		α Phœnicis.... . .	14,18
	13 4 12,01		
Sextant	13 4 6,85		
Mean Latitude by the Stars	13 4 9,88	Mean	13 4 6,85

OBSERVATIONS WITH THE CIRCULAR INSTRUMENT RECOMPUTED.

1793. Month.		Face.	Names of Stars.	True Zenith Distances.	Declination used before.	Declination now used.	Latitude.
December	21	E	β Arietis	6° 48' 11",08	19° 47' 44",3	19° 47' 44",16	13° 4' 33",08
			α Arietis *	9 24 10,59	22 28 54,3	22 28 50,82	13 4 40,23
	22	W	α Ceti *	9 47 54,48	3 16 24,3	3 16 12,80	13 4 7,28
	23	E	β Arietis *	6 43 10,47	19 47 44,2	19 47 44,06	13 4 33,59
			α Arietis *	9 24 32,58	22 28 54,3	22 28 50,82	13 4 17,24
		W	α Ceti *	9 47 39,47	3 16 24,3	3 16 12,74	13 3 52,21
		E	Aldebaran *	3 0 5,90	16 4 50,7	16 4 46,21	13 4 40,31
		W	Rigel *	21 30 59,33	8 27 13,3	8 27 15,44	13 3 43,49
			ε Orionis *	14 25 1,15	1 20 55,7	1 20 56,05	13 4 5,10
			α Orionis *	5 42 24,52	7 21 11,2	7 21 8,11	13 3 32,63
	24		α Arietis *	9 24 56,57	22 28 54,3	22 28 50,87	13 3 54,30
	27		α Ceti *	9 47 31,46	3 16 24,3	3 16 12,70	13 3 44,16
			Aldebaran *	3 0 13,93	16 4 50,7	16 4 46,26	13 4 32,33
		E	Rigel *	21 31 42,32	8 27 13,4	8 27 15,59	13 4 26,73
			β Tauri *	15 20 39,11	28 25 0,1	28 24 56,46	13 4 17,35
			α Orionis *	5 43 12,53	7 21 11,2	7 21 8,13	13 4 20,66
	30	W	β Arietis *	6 43 46,49	19 47 44,0	19 47 44,21	13 3 57,92
			α Arietis *	9 25 1,08	22 28 54,3	22 28 51,15	13 3 50,07
		E	α Ceti *	9 48 22,97	3 16 24,3	3 16 12,82	13 4 35,79
			Aldebaran *	3 0 13,93	16 4 50,7	16 4 46,26	13 4 32,33
		W	Rigel *	21 31 1,77	8 27 13,5	8 27 16,45	13 3 45,92
			β Tauri *	15 21 12,62	28 25 0,1	28 24 56,49	13 3 43,87
		E	ε Orionis *	14 25 48,34	1 20 55,7	1 20 55,99	13 4 52,35
			α Orionis *	5 43 20,55	7 21 11,2	7 21 8,14	13 4 28,69
	31		Rigel *	21 31 39,78	8 27 13,5	8 27 15,64	13 4 24,14
		W	β Tauri *	15 21 26,13	28 25 0,1	28 24 56,50	13 3 36,37
			ε Orionis *	14 24 54,24	1 20 55,7	1 20 55,98	13 3 58,26
			α Orionis *	5 42 37,09	7 21 11,2	7 21 8,14	13 3 45,17
1794—Jan.	2	E	β Tauri *	15 20 22,56	28 25 0,1	28 24 56,52	13 3 33,96
			α Orionis *	5 43 41,53	7 21 11,2	7 21 8,15	13 4 49,68

ADDITIONAL OBSERVATIONS WITH THE CIRCULAR INSTRUMENT TAKEN FROM THE *OBSERVATORY RECORDS*.

1794. Month.		Face.	Names of Stars.	True Zenith Distances.	Declination.	Latitude.
February	22	W	α Orionis *	5° 42' 50",01	7° 21' 3",24	13° 5' 53",25
			Pollux *	15 26 14,68	28 30 24,76	13 4 10,08
	26	E	α Orionis *	5 43 14,52	7 21 3,65	13 4 18,17
			Procyon *	7 20 2,15	5 44 13,33	13 4 15,48
			β Tauri *	15 20 40,09	28 24 57,39	13 4 17,50
			Pollux *	15 26 18,22	28 30 24,27	13 4 6,05
			ε Orionis *	14 25 22,61	1 21 2,64	13 4 19,97
	27	W	α Orionis *	5 42 50,47	7 21 3,76	13 3 54,23
			Procyon *	7 19 44,64	5 44 13,31	13 3 57,95
			Pollux *	15 26 36,22	28 30 24,13	13 3 47,91
			Castor *	19 15 38,77	32 19 21,17	13 3 42,40
			ε Orionis *	14 24 59,10	1 21 2,69	13 3 56,41
	28		ε Orionis *	14 25 8,09	1 21 2,74	13 4 5,35
			Rigel *	21 31 22,85	8 27 23,17	13 3 59,6
		E	α Orionis *	5 43 6,0	7 21 3,86	13 4 9,86
			β Tauri *	15 21 9,57	28 24 57,41	13 3 47,84
			Pollux *	15 26 11,21	28 30 23,99	13 4 12,78
			Castor *	19 15 22,76	32 19 21,25	13 3 58,49
March	2	W	Procyon *	7 19 44,14	5 44 13,39	13 3 57,53
			Pollux *	15 26 39,72	28 30 23,49	13 3 43,77
			Castor *	19 15 42,30	32 19 21,59	13 3 39,29
	5	E	Procyon *	7 20 5,08	5 44 13,57	13 4 18,67
			Pollux *	15 26 17,09	28 30 23,07	13 4 5,98
			Castor *	19 15 11,13	32 19 22,06	13 4 10,93

The Declinations of Stars marked with an *, are taken from the Nautical Almanac for 1825.

ADDITIONAL OBSERVATIONS WITH THE CIRCULAR INSTRUMENT TAKEN FROM THE *OBSERVATORY RECORDS, continued.*

1794. Month.		Face.	Names of Stars.	True Zenith Distances.	Declination.	Latitude.
March	7	E	α Orionis *	5° 42′ 59″,96	7° 21′ 4″,59	13° 4′ 4″,55
			Procyon *	7 20 8,09	5 44 13,71	13 4 21,80
			ε Orionis *	14 25 28,09	1 21 2,96	13 4 25,13
April	25		Regulus *	0 6 23,66	12 57 55,92	13 4 19,58
	28	W	Regulus *	0 5 57,16	12 57 56,13	13 3 53,29
	30		Regulus *	0 5 58,15	12 57 56,28	13 3 54,41
May	1	E	Regulus *	0 6 33,66	12 57 56,35	13 4 30,01
	2		Regulus *	0 6 24,66	12 57 56,43	13 4 21,09
	5		Regulus *	0 6 23,16	12 57 56,65	13 4 19,81
	6	W	Regulus *	0 5 59,66	12 57 56,79	13 3 56,45
	8		Regulus *	0 6 4,16	12 57 56,87	13 4 1,03
	21		β Leonis *	2 39 21,98	15 43 38,58	13 4 16,60
	24	E	β Leonis *	2 39 7,98	15 43 38,93	13 4 30,95
June	20	W	☉ L. L.	10 23 51,17	23 27 34,87	13 3 43,70
	21		,,	10 24 5,86	23 27 48,22	13 3 42,36
	22	E	,,	10 23 45,58	23 27 38,24	13 3 52,66
	23		☉ U. L.	10 22 58,22	23 26 59,86	13 4 1,14
	24		☉ L. L.	10 21 56,71	23 25 57,93	13 4 1,22
	25	W	☉ U. L.	10 20 24,32	23 24 31,51	13 4 7,19
	26		,,	10 18 32,09	23 22 40,08	13 4 7,99
	27	E	,,	10 15 58,14	23 20 24,43	13 4 26,29
July	14	W	☉ L. L.	8 36 48,22	21 40 40,04	13 3 51,82
	16	E	,,	8 17 38,32	21 21 37,85	13 3 59,53
	18		☉ U. L.	7 56 58,55	21 1 9,44	13 4 10,89
	20	W	,,	7 35 6,92	20 39 14,05	13 4 7,13
	21		☉ L. L.	7 23 56,22	20 27 44,70	13 3 58,48
	23	E	☉ U. L.	6 59 39,23	20 3 44,88	13 4 4,65
	24		☉ L. L.	6 47 11,4	19 51 13,3	13 4 1,9
	28	W	☉ U. L.	5 54 6,19	18 57 56,47	13 3 50,28
	29		☉ L. L.	5 39 53,0	18 43 49,7	13 3 56,7
August	1	E	☉ U. L.	4 55 27,66	17 59 37,96	13 4 10,30
	9		,,	2 45 13,18	15 49 16,16	13 4 2,98
	10	W	,,	2 27 45,10	15 31 47,51	13 4 2,41
	11		☉ L. L.	2 10 11,35	15 14 3,85	13 3 52,50
	13	E	☉ U. L.	1 33 46,84	14 37 52,37	13 4 5,53
	23		☉ U. L.	1 40 16,82	11 23 35,63	13 3 52,45
	24	W	☉ L. L.	2 1 15,25	11 3 4,85	13 4 20,10
	26		☉ U. L.	2 42 13,0	10 21 30,76	13 3 43,76
	27	E	☉ L. L.	3 3 58,82	10 0 28,77	13 4 27,59
	29		,,	3 46 5,36	9 17 57,0	13 4 2,36
September	2	W	,,	5 13 3,06	7 51 10,36	13 4 13,42
	3		☉ U. L.	5 34 47,45	7 29 8,92	13 3 56,37
	5	E	,,	6 19 24,59	6 44 45,04	13 4 9,63
	7		,,	7 4 4,66	5 59 53,94	13 3 58,60
	13		☉ L. L.	9 21 4,51	3 43 10,63	13 4 15,14
	19	W	α Aquilæ *	4 43 48,99	8 20 29,21	13 4 18,20
			β Aquilæ *	7 9 40,79	5 54 33,02	13 4 13,81
	22		☉ L. L.	12 50 23,17	0 13 48,2	13 4 11,37
	24	E	α Aquilæ *	4 43 52,98	8 20 29,39	13 4 22,37
			γ Aquilæ *	2 56 25,75	10 7 50,53	13 4 16,28
			β Aquilæ *	7 9 54,30	5 54 33,17	13 4 27,47
	26	W	α Aquilæ *	4 43 33,49	8 20 29,51	13 4 3,0
			γ Aquilæ *	2 56 31,25	10 7 50,53	13 4 21,78
			β Aquilæ *	7 9 25,82	5 54 33,24	13 3 59,06
	29	E	α Aquilæ *	4 43 49,0	8 20 29,55	13 4 18,55
			β Aquilæ *	7 9 55,32	5 54 33,28	13 4 28,60
October	1		α Aquilæ *	4 43 52,49	8 20 29,57	13 4 22,06
			γ Aquilæ *	2 56 36,24	10 7 50,53	13 4 26,77
			β Aquilæ *	7 9 49,80	5 54 33,31	13 4 23,11

RESULTS,

Those which differed more than 10' from the Mean having been rejected.

NORTH OF THE ZENITH.				SOUTH OF THE ZENITH.	
Face East.		*Face West.*		*Face East.*	*Face West.*
13° 4' 35',08		13° 3' 54',30		13° 4' 26',73	13° 3' 52',2[
33,59		57,32		20,66	4 5,10
17,35		50,07		28,69	44,16
32,33		43,87		24,14	56,41
33,96		47,91		19,97	5,35
20,95		42,40		25,13	3 59,6
17,30		42,77		19,55	53,29
17,24		. . .		30,01	54,41
				21,09	56,45
13 4 26,98		13 3 48,52		19,81	45,32
		13 4 26,98		22,57	58,26
	Mean	13 4 7,75		16,28	45,17
				27,47	4 1,03
				18,55	3,0
				28,60	3 59,06
				22,06	53,25
				20,77	54,23
				23,11	57,95
				18,17	57,53
				15,48	. . . .
				18,67	. . . .
				21,80	. . . .
			Mean	13 4 22,51	13 3 55,88
				13 3 55,88	
			Circular Instrument	13 4 9,20	
				13 4 7,75	
			Mean Latitude by the Stars only	13 4 8,48	

RESULTS OF THE OBSERVATIONS BY THE SUN WITH THE CIRCULAR INSTRUMENT,

Rejecting those differing more than 10' from the Mean.

NORTH OF THE ZENITH.				SOUTH OF THE ZENITH.	
East.		*West.*		*East.*	*West.*
13° 4' 1',14		13° 4' 7',19		13° 4' 2',56	13° 4' 20',10
1,22		3 51,82		9,63	13,42
3 59,53		4 7,13		3 58,60	11,37
4 10,89		3 58,48		4 15,14	. . .
4,65		50,28			
1,9		56,7		13 4 6,43	13 4 14,96
10,80		4 2,41			13 4 6,43
2,98		3 52,50			
5,53		. . . .			South 13 4 10,695
					North 13 4 1,280
13 4 4,24		13 3 58,31			
		13 4 4,24			Mean of both 13 4 5,988
	Mean	13 4 1,28			

RESULTS BY THE OBSERVATIONS OF THE SUN AND STARS, *combined*.

NORTH OF THE ZENITH.

	East.		*West.*
	13° 4′ 33″,08		13° 3′ 54″,30
	33,59		57,32
	17,35		50,07
	32,33		43,87
	33,96		47,91
	30,95		42,40
	17,30		43,77
	17,24	⊙	4 7,19
⊙	3 52,66		3 51,82
	4 1,14		4 7,13
	1,22		3 55,48
	3 59,53		50,28
	4 10,89		56,7
	4,65		4 9,41
	1,9		3 52,50
	10,30		. . . .
	2,98		. . . .
	5,53		. . . .
	13 4 27,03		13 3 53,75
			13 4 27,03
		Mean	13 4 10,39

SOUTH OF THE ZENITH.

	East.	*West.*
	13° 4′ 26″,73	13° 3′ 52″,21
	20,66	4 5,10
	28,69	3 44,16
	24,14	56,41
	19,97	4 5,35
	25,13	3 59,6
	19,58	53,29
	30,01	54,41
	21,09	56,45
	19,81	45,32
	22,37	58,26
	16,28	45,17
	27,47	4 1,03
	18,55	3,0
	28,60	3 59,06
	22,06	53,25
	26,77	54,23
	23,11	57,95
	18,17	57,53
	15,48	4 20,10
	18,67	13,42
	21,80	3 56,37
⊙	4 2,36	4 11,37
	9,63	[. . . .]
	3 58,60	[. . . .]
	4 15,14	[. . . .]
	13 4 26,04	13 3 48,11
	13 3 48,11	

Mean by ⊙ and ** N. 13 4 7,08
" " S. 13 4 10,39

Mean Latitude by combining the Observations of the Sun and Stars with the *Circular Instrument*. 13 4 8,64

OBSERVATIONS *with the* ZENITH SECTOR, *when brought a second time to the Observatory during* MR. GOLDINGHAM'S *absence in England—Recomputed.*

Names of Stars.	True Zenith Distances.	Declination used before.	Declination now used.	Latitude.
α Pegasi	1° 5′ 23″,605	14° 9′ 40″,09	14° 9′ 30″,2	13° 4′ 6″,595
γ Pegasi	1 1 48,438	14 6 4,70	14 5 58,65	13 4 10,212
Arcturus	7 8 0,272	20 12 18,23	20 12 12,55	13 4 12,278
Aldebaran	3 2 10,189	16 6 23,73	16 6 20,20	13 4 10,011
β Leonis	2 35 33,538	15 39 45,28	15 39 42,60	13 4 9,062
α Herculis	1 33 12,367	14 37 30,96	14 37 22,55	13 4 10,183
α Ophiuchi	0 21 24,060	12 42 51,0	12 42 45,20	13 4 9,260
α Aquilæ	4 42 20,488	8 21 53,53	8 21 48,08	13 4 8,568
α Serpentis	6 1 13,812	7 3 0,30	7 2 53,8	13 4 7,612
α Orionis	5 42 36,477	7 21 36,67	7 21 31,6	13 4 8,077
Procyon	7 21 12,363	5 43 0,01	5 42 51,45	13 4 3,813
Regulus	0 9 13,886	12 54 58,970	12 54 54,45	13 4 8,336
γ Leonis	7 45 12,012	20 49 26,0	20 49 20,40	13 4 8,388
β Arietis	6 46 48,962	19 51 2,0	19 51 0,20	13 4 11,238
γ Orionis	6 54 29,130	6 9 43,0	6 9 37,05	13 4 6,180
δ Arietis	5 54 39,0	18 58 50,95	18 58 42,8	13 4 3,80
γ Tauri	2 4 36,31	15 8 49,0	15 8 39,5	13 4 3,19
κ Leonis	4 40 52,91	8 23 20,0	8 23 19,3	13 4 12,21
ο Leonis	2 17 46,098	10 46 25,0	10 46 23,7	13 4 9,798
γ Geminorum	3 29 5,812	16 33 18,0	16 33 9,0	13 4 5,188
ζ Aquilæ	0 30 49,885	13 35 8,0	13 35 6,7	13 4 16,815
π Orionis	4 30 49,057	8 33 17,0	8 33 14,05	13 4 3,107
2 α Cancri	0 27 54,45	12 36 18,0	12 36 15,1	13 4 9,550
σ Leonis	5 58 21,823	7 5 48,0	7 5 49,95	13 4 11,773
1 α Cancri	0 42 21,739	12 21 48,0	12 21 44,35	13 4 6,089
β Cancri	3 17 31,286	9 46 39,0	9 46 35,65	13 4 6,936
ξ Leonis	0 54 47,347	12 9 28,0	12 9 23,15	13 4 10,497
δ Cancri	5 47 31,651	18 51 47,0	18 51 53,65	13 4 21,999
κ Cancri	1 37 25,496	11 26 45,0	11 26 36,60	13 4 2,096
ϱ Leonis	2 45 45,478	10 18 28,0	10 18 24,85	13 4 10,328
ε Virginis	1 3 32,987	12 0 40,0	12 0 39,45	13 4 12,437
μ Ceti	3 47 2,780	9 17 6,0	9 16 57,45	13 4 0,230
β Delphini	0 51 20,341	13 55 36,0	13 55 27,65	13 4 7,309
ε Pegasi	4 4 53,196	8 59 18,0	8 59 9,8	13 4 2,996
η Bootis	6 18 36,578	19 22 58,0	19 22 49,0	13 4 12,422
δ Serpentis	1 52 10,621	11 12 4,0	11 11 55,600	13 4 6,221
α Sagittæ	4 30 16,178	17 34 34,0	17 34 25,8	13 4 9,622

RESULTS OF THE FOREGOING.

NORTH OF THE ZENITH.

α Pegasi	13° 4′	6″,595
γ Pegasi		10,212
Arcturus		12,278
Aldebaran		10,011
β Leonis		9,062
α Herculis		10,183
γ Leonis		8,388
β Arietis		11,238
δ Arietis		3,80
γ Tauri		3,19
γ Geminorum		5,188
ζ Aquilæ		16,815
β Delphini		7,309
η Bootis		12,422
α Sagittæ		9,622
Mean	13 4	9,088

SOUTH OF THE ZENITH.

α Ophiuchi	13° 4′	9″,260
α Aquilæ		8,568
α Serpentis		7,612
α Orionis		8,077
Procyon		3,813
Regulus		8,336
γ Orionis		6,180
κ Leonis		12,21
ο Leonis		9,798
π Orionis		3,107
2 α Cancri		9,550
σ Leonis		11,773
1 α Cancri		6,089
β Cancri		6,936
ξ Leonis		10,497
κ Cancri		2,096
ϱ Leonis		10,328
ε Virginis		12,437
μ Ceti		0,230
ε Pegasi		2,996
δ Serpentis		6,221
Mean	13 4	7,431
	13 4	9,088
Mean	13 4	8,260

RESULTS BY OBSERVATIONS *ON* THE SUN WITH THE *ZENITH SECTOR*.

NORTH OF THE ZENITH.			SOUTH OF THE ZENITH.		
13°	4′	4″,989	13°	4′	5″,569
		4,486			3,705
		6,452			8,399
		5,224			3,614
		3,965			0,005
		2,024			2,416
		7,778			0,424
		6,708	3		58,535
		8,312	4		3,249
		5,090			. . .
		5,989			. . .
Mean	13	4 5,483		13	4 2,880
				13	4 5,483
			Mean	13	4 4,182

RESULTS BY OBSERVATIONS OF THE SUN AND STARS, WITH THE *ZENITH SECTOR* WHEN BROUGHT A SECOND TIME TO THE OBSERVATORY—*Recomputed.*

NORTH OF THE ZENITH.			SOUTH OF THE ZENITH.		
α Pegasi	13°	4′ 6″,595	α Ophiuchi	13°	4′ 9″,260
γ Pegasi		10,212	α Aquilæ		8,568
Arcturus		12,978	α Serpentis		7,612
β Leonis		9,062	α Orionis		8,077
Aldebaran		10,011	Procyon		3,813
α Herculis		10,183	Regulus		8,336
γ Leonis		8,388	γ Orionis		6,180
β Arietis		11,258	κ Leonis		12,210
δ Arietis		3,800	ε Leonis		9,798
γ Tauri		3,190	π Orionis		3,107
γ Geminorum . . .		5,188	2 α Cancri		9,550
ζ Aquilæ		10,815	ε Leonis		11,773
β Delphini		7,309	1 α Cancri		6,089
η Bootis		12,122	β Cancri		6,956
α Sagittæ		9,62	ξ Leonis		10,497
Sun		4,286	ρ Leonis		10,238
,, . . .		4,486	ε Virginis		12,437
,, . . .		6,15x	μ Ceti		0,250
,, . . .		5,224	ε Pegasi		2,996
,, . . .		3,965	δ Serpentis		6,221
,, . . .		2,024	κ Cancri		2,036
,, . . .		7,778	Sun		5,569
,, . . .		6,708	,, . . .		3,705
,, . . .		8,312	,, . . .		8,399
,, . . .		5,090	,, . . .		3,614
,, . . .		5,989	,, . . .		0,005
		. . .	,, . . .		2,416
		. . .	,, . . .		0,424
		. . .	,, . . .	3	58,535
		. . .	,, . . .	4	3,249
Mean	13	4 7,56	Mean	13	4 6,19
				13	4 7,56
			Mean	13	4 6,875

LATITUDE OF THE OBSERVATORY BY THE FOREGOING RESULTS.

By Mr. Goldingham's Observations.

By Observations of the *Stars* with the *Sextant* - - *(Recomputed)* -					13°	4' 9",88
" " " with the *Circular Instrument* " -					4	8,48
" of the *Sun* and *Stars* combined " " " -					4	8,64
" of the *Sun* and *Stars* combined—with the *Zenith Sector*—						
(as formerly computed)					4	8,55
By Correspondent Observations of the *Sun* at Greenwich -			13°	4' 11",16		
Observations of the *Sun—Circular Instrument* 13°	4'	5",98				
" " —*Zenith Sector* -	4	5,15				
			4	5,57		
					4	8,36
Mean of *Mr. Goldingham's* Observations					13	4 8,67

By the OBSERVATIONS with the ZENITH SECTOR when brought to the Observatory during Mr. Goldingham's absence in England.

By Observations of the *Stars* - - - *(Recomputed)* - -			13°	4'	8",26
" of the *Sun* and *Stars* combined— " - - -				4	6,88
	Mean		13	4	7,57

Mean by the Observations of the *Sun* 13° 4' 4",18.

By combining ALL the foregoing Results.

By Observations of the *Stars* with the *Sextant* - - - -					13°	4' 9",88
" " " " with the *Circular Instrument* - - - -					4	8,48
" of the *Sun* and *Stars combined—Circular Instrument* - -					4	8,64
" " *Sun* and *Stars* with the *Zenith Sector (as formerly computed)*					4	8,55
By Correspondent Observations of the *Sun* at Greenwich -			13°	4' 11",16		
By Observations of the *Sun—Circular Instrument* 13°	4'	5",98				
" " —*Zenith Sector* -	4	5,15				
" " " " when brought again to the Observatory	4	4,18				
			13	4 5,10		
					4	8,13
By Observations of the *Stars—Zenith Sector* when brought again to the Observatory					4	8,26
" " *Sun* and *Stars combined—Zenith Sector* " "					4	7,57
Mean Latitude of the Observatory by all the Results					13	4 8,5 N

OBSERVATIONS for the LATITUDE by the small CIRCULAR INSTRUMENT by TROUGHTON: It having been returned to the Observatory by the Superintendent of the Trigonometrical Survey; and afterwards repaired.

The Declinations of these Stars are taken from the Nautical Almanac for 1825.

1824. Month.		Names.	No. of Observations.	True Zenith Distances.	Declination.	Latitude.
February	8	Capella	8	32° 44' 26',90 N	45° 48' 39',71 N	13° 4' 12',81 N
	11	α Libræ	8	28 22 32,24 S	15 18 18,80 S	13 4 13,44
	15	Capella	6	32 44 28,54 N	45 48 39,97 N	13 4 11,43
	21	α Libræ	8	28 22 33,65 S	15 18 18,14 S	13 4 15,51
	25	Sirius	8	29 33 13,5	16 29 3,10	13 4 10,40
	27	Capella	8	32 44 33,67 N	45 48 40,08 N	13 4 6,41
	29	α Libræ	6	28 22 28,80 S	15 18 17,73 S	13 4 10,07
March	1	Antares	12	39 6 4,97	26 1 57,66	13 4 7,31
	2	Rigel	10	21 28 52,62	8 24 48,19	13 4 4,43
	10	Pollux	8	15 22 20,60 N	28 26 33,25 N	13 4 12,65
	11	Castor	10	19 11 50,5 N	32 15 53,82	13 4 3,32
		Sirius	10	29 33 10,68 S	16 29 5,02 S	13 4 5,66
	14	α Herculis	10	1 31 26,67 N	14 35 38,53	13 4 10,06
		Antares	10	39 6 10,66 S	26 1 58,77 S	13 4 11,89
	15	α Ophiuchi	8	0 22 45,32 S	12 41 30,82 N	13 4 16,14
	18	Procyon	8	7 24 8,03 S	5 39 57,53 N	13 4 5,56
	20	Sirius	8	29 33 19,62 S	16 29 5,11 S	13 4 14,51
		Pollux	8	15 22 24,58 N	28 26 32,68 N	13 4 8,10
	21	Castor	10	19 11 53,87	32 15 54,23	13 4 0,36
	23	γ Draconis	8	58 26 16,72	51 30 26,26	13 4 9,64
		α Orionis	8	5 43 17,88 S	7 21 55,05	13 4 12,91
		Rigel	8	21 29 4,50 S	8 24 48,35 S	13 4 16,15
	24	α Ophiuchi	8	0 22 46,57	12 41 30,84 N	13 4 17,41
	26	α Herculis	10	1 31 28,67 N	14 35 38,73	13 4 11,86
	27	Procyon	10	7 24 6,88 S	5 39 57,40 S	13 4 4,23
	29	Castor	6	19 11 48,43 N	32 15 54,49 N	13 4 6,06
		α Ophiuchi	6	0 22 44,07 S	12 41 31,01	13 4 15,08
		Sirius	10	29 33 14,26 S	16 29 5,26 S	13 4 9,0
	30	Pollux	8	15 22 27,73 N	28 26 32,95 N	13 4 6,22
	31	γ Draconis	8	38 26 17,70	51 30 26,34	13 4 8,64
April	4	α Hydræ	8	20 58 29,04 S	7 54 16,19 S	13 4 12,85
	5	Castor	8	19 11 45,66 N	32 15 54,69 N	13 4 9,03
		Procyon	8	7 24 7,68 S	5 39 57,43	13 4 5,11
	7	Pollux	8	15 22 22,20 N	28 26 34,22 N	13 4 12,02
	11	Regulus	6	0 14 58,63 S	12 49 13,54 S	13 4 12,17
	13	α Hydræ	8	20 58 31,54 S	7 54 16,49 S	13 4 14,05
	15	α Ursæ Maj.	8	49 37 37,68 N	62 41 53,58 N	13 4 15,90
		γ Ursæ Maj.	10	41 36 1,48	54 40 16,38	13 4 14,90
	17	β Leonis	10	2 29 56,87	15 33 5,08	13 4 8,21
	21	Regulus	8	0 14 55,31 S	12 49 14,0	13 4 9,31
	25	α Hydræ	6	20 58 38,89	7 54 16,63 S	13 4 22,36
	28	α Ursæ Maj.	8	49 37 41,21 N	62 41 56,02 N	13 4 14,81
	30	Regulus	8	0 14 48,75 S	12 49 14,53	13 4 3,28
May	1	β Leonis	8	2 29 0,16 N	15 33 6,48	13 4 6,28
		γ Ursæ Maj.	10	41 36 1,50	54 40 19,62	13 4 12,12
	3	α Hydræ	8	20 58 36,88 S	7 54 16,32 S	13 4 20,56
	9	Regulus	8	0 14 58,74	12 49 15,07 N	13 4 13,81
	11	α Ursæ Maj.	8	49 37 49,40 N	62 41 57,67	13 4 8,27
		β Leonis	8	2 29 0,46	15 33 7,79	13 4 7,33
	12	γ Ursæ Maj.	10	41 36 3,97	54 40 21,55	13 4 17,58
	17	Regulus	6	0 14 54,48 S	12 49 15,45	13 4 9,93
	19	Spicæ Virginis	8	23 18 57,78	10 14 40,66 S	13 4 17,12
	23	α Ursæ Maj.	8	49 37 44,70 N	62 41 58,79 N	13 4 14,09
		β Leonis	8	2 29 7,43	15 33 8,80	13 4 1,47
	30	γ Ursæ Maj.	12	41 36 8,38	54 40 23,86	13 4 15,54
June	3	Arcturus	8	7 1 45,21	20 6 3,91	13 4 18,70
	6	β Leonis	8	2 29 4,21	15 33 9,75	13 4 5,54
	14	Arcturus	8	7 1 46,44	20 6 1,20	13 4 14,56
	15	α Libræ	8	28 22 40,74 S	15 18 29,09 S	13 4 11,65
	18	Spicæ Virginis	10	23 19 2,40 S	10 14 40,51	13 4 21,89
July	6	Arcturus	8	7 1 45,21 N	20 6 3,91 N	13 4 18,70
	7	Libræ	8	28 22 41,51 S	15 18 28,13 S	13 4 13,38
	8	α Serpentis	4	6 5 4,90 S	6 59 3,77 N	13 4 8,67
	21	Antares	5	39 6 13,70 S	26 2 4,21 S	13 4 9,49
	22	α Serpentis	4	6 5 8,59	6 59 5,39 N	13 4 13,98
August	3	Antares	3	39 6 14,98	26 2 5,08 S	13 4 9,95

OBSERVATIONS for the LATITUDE by the small CIRCULAR INSTRUMENT *by* TROUGHTON;—continued.

1824. Month.		Names.	No. of Observations.	True Zenith Distances.	Declination.	Latitude.
August	6	α Ophiuchi - -	4	0° 22′ 17″,16 S	12° 41′ 51″,22 N	13° 4′ 8″,38 N
September	7	γ Draconis - -	6	38 26 58,30 N	51 31 5,86	13 4 7,56
	8	α Ophiuchi - -	6	0 22 16,98 S	12 41 54,13	13 4 11,11
	9	γ Aquilæ - -	7	2 52 19,61 S	10 11 48,57	13 4 8,18
		α Aquilæ - - *	6	4 39 19,80	8 24 58,47	13 4 18,27
	11	α Lyræ - - *	6	25 33 31,05 N	38 37 51,13	13 4 20,08
		β Aquilæ - -	7	7 5 25,68 S	5 58 47,89	13 4 13,57
	16	γ Draconis - -	8	38 26 58,77 N	51 31 5,93	13 4 7,16
		α Lyræ - - *	6	25 33 31,48	38 37 51,60	13 4 20,12
	20	α Aquilæ - - *	5	4 39 21,19 S	8 24 59,18	13 4 20,37
		α Cygni - -	5	31 35 39,16 N	44 39 48,78	13 4 9,02
	21	α Lyræ - - *	5	25 33 29,57	38 37 51,91	13 4 22,34
		γ Aquilæ - -	6	2 52 18,71 S	10 11 50,35	13 4 9,06
		β Aquilæ - -	7	7 5 21,45	5 58 48,49	13 4 9,94
	26	2 α Capricorni -	7	26 8 57,95 S	13 4 46,96 S	13 4 10,99
	27	α Aquilæ - - *	5	4 39 21,69	8 24 59,70 N	13 4 21,39
		α Cygni - -	5	31 35 38,71 N	44 39 50,07	13 4 11,36
	28	α Lyræ - - *	3	25 33 31,35	38 37 53,19	13 4 21,84
	30	γ Aquilæ - -	6	2 52 13,99 S	10 11 50,91	13 4 4,90
October	2	β Aquilæ - -	8	7 5 22,01	5 58 48,92	13 4 10,93
	6	α Cygni - -	7	31 35 41,67 N	44 39 51,42	13 4 9,75
		2 α Capricorni -	6	26 9 1,88 S	13 4 45,30 S	13 4 16,58
	7	α Aquilæ - - *	6	4 39 18,58 S	8 24 59,96	13 4 18,54

Note.—The foregoing Observations, with those of the Sun which follow, being so numerous, a Selection has been made in drawing the Conclusions, by first taking the Mean of the *whole*, and rejecting any Results which differed more than 8 seconds from that Mean: The Mean of those not rejected was then found, and any which differed more than the above quantity from this second Mean, were also rejected; and the Mean of those last retained, taken for the *Latitude*. The same operations were performed with the Results of the Observations by the Sun.

Those of the foregoing Observations with an * have in consequence been rejected; as well as those Results of the Observations by the Sun, which have the same mark.

RESULTS BY THE OBSERVATIONS OF THE STARS—LATELY TAKEN.

NORTH OF THE ZENITH.			SOUTH OF THE ZENITH.		
Pollux	13°	4′ 12″,65	Regulus.	13°	4′ 12″,17
		8,10			9,31
		6,22			13,81
		12,02			9,93
α Herculis. . . .		10,06	α Ophiuchi. . . .		16,14
		11,86			15,08
Castor		3,32	Procyon.		5,56
		6,06			4,23
		9,03			5,11
γ Draconis		9,64	ν Libræ		13,44
		8,64			15,51
Capella		12,81			10,07
		11,43	Sirius		10,40
		6,41			5,66
β Leonis.		8,21			14,51
		6,23			9,0
		7,33	Antares		7,31
		5,54			11,89
α Ursæ Maj. . . .		14,81	α Hydræ		12,85
		8,27	α Orionis.		12,91
		14,09	Rigel		4,43
γ Ursæ Maj. . . .		12,12			16,15
Arcturus		14,56	α Libræ		11,65
γ Draconis		7,56			13,38
		7,16	Antares		9,49
α Cygni		9,65			9,95
		11,36	α Ophiuchi. . . .		8,38
		9,75			11,11
		. . . .	α Serpentis		8,67
		. . . .			13,98
		. . . .	γ Aquilæ.		8,18
		. . . .			9,06
		. . . .			4,90
		. . . .	β Aquilæ.		13,57
		. . . .			9,94
		. . . .			10,93
		. . . .	2α Capricorni. . . .		10,99
		. . . .			16,58
Mean	13	4 9,53	Stars South of the Zenith	13	4 10,69
			,, North of the Zenith	13	4 9,53
			Mean	13	4 10,11

RESULTS BY OBSERVATIONS OF THE SUN WITH THE CIRCULAR INSTRUMENT—LATELY TAKEN.

NORTH OF THE ZENITH.			SOUTH OF THE ZENITH.		
13°	4′	5″,06	13°	4′	12″,74
		9,35			0,73
		8,25			7,61
		5,78			6,04
		1,77			11,57
	3	57,41			9,16
	4	8,43			9,91
		7,18			12,81
		3,26			7,56
		8,57			8,9
	3	59,75			13,05
	4	4,0			8,96
		3,09			9,13
		7,76			11,33
		2,27			9,23
	3	59,64			11,81
		57,19			15,44
	4	1,22			14,24
		8,21			12,11
	3	58,94			14,61
	4	6,11			...
	3	57,85			...
	4	5,9			...
		0,38			...
		7,38			...
		5,9			...
		2,59			...
Mean of the whole	13	4 5,92	Mean of the whole	13	4 10,51
Third Mean	13	4 3,83	Sun North of the Zenith by 3d Mean	13	4 3,83
			„ South of the Zenith „	13	4 10,25
			Mean	13	4 7,04

BY THE SUN AND STARS COMBINED.

NORTH OF THE ZENITH.				SOUTH OF THE ZENITH.			
Pollux	13°	4′	12″,65	Regulus	13°	4′	12″,17
			8,10				9,31
			6,22				13,81
			12,02				9,93
α Herculis			10,06	α Ophiuchi			16,14
			11,86				15,08
Castor			3,92	Procyon			5,56
			6,06				4,23
			9,03				5,11
γ Draconis			9,64	α Libræ			13,44
			8,64				15,51
Capella			12,81				10,07
			11,43	Sirius			10,40
			6,41				5,66
β Leonis			8,21				14,51
			6,28				9,0
			7,33	Antares			7,31
			5,54				11,89
α Ursæ Maj.			14,81	α Hydræ			12,85
			8,27	α Orionis			12,91
			14,09	Rigel			4,43
γ Ursæ Maj.			12,12				16,15
Arcturus			14,56	α Libræ			11,65
γ Draconis			7,56				13,38
			7,16	Antares			9,49
α Cygni			9,62				9,95
			11,36	α Ophiuchi			8,38
			9,76				11,11
Sun			5,06	α Serpentis			8,67
,,			9,35				13,98
,,			8,25	γ Aquilæ			8,18
,,			5,78				9,06
,,			1,77				4,90
,,		3	57,41	β Aquilæ			13,37
,,		4	8,43				9,94
,,			7,48				10,93
,,			3,26	2 α Capricorni			10,99
,,			8,57				16,58
,,		3	59,75	Sun			12,74
,,		4	4,0	,,			0,73
,,			3,09	,,			7,61
,,			7,76	,,			6,04
,,			2,27	,,			11,57
,,		3	59,64	,,			9,16
,,			57,19	,,			9,91
,,		4	1,22	,,			12,81
,,			8,21	,,			7,56
,,		3	58,94	,,			8,9
,,		4	12,64	,,			13,05
,,			6,11	,,			8,96
,,		3	57,85	,,			9,13
,,		4	5,9	,,			11,33
,,			0,38	,,			9,23
,,			7,38	,,			11,81
,,			5,9	,,			13,44
,,			2,59	,,			11,24
				,,			12,11
				,,			14,61
Mean	13	4	6,80	Objects South of the Zenith, Mean	13	4	10,54
				North of the Zenith, Mean	13	4	6,80
				Mean	13	4	8,67

LATITUDE OF THE OBSERVATORY BY THE FOREGOING.

By Observations of the *Stars*		13° 4′ 10″,11	
,, ,, *Sun* and *Stars combined*		13 4 8,67	
,, ,, *Sun*		13 4 7,04	

LATITUDE OF THE OBSERVATORY BY COMBINING THESE WITH THE FORMER OBSERVATIONS.

By Observations of the *Stars* with the *Sextant*			13° 4′ 9″,88
,, ,, ,, ,, with the *Circular Instrument*			4 8,48
,, ,, *Sun* and *Stars combined—Circular Instrument*			4 8,61
,, ,, *Sun* and *Stars* with the *Zenith Sector (as formerly computed)*			4 8,55
By Correspondent Observations of the *Sun* at Greenwich		13° 4′ 11″,16	
By Observations of the *Sun—Circular Instrument*	13° 4′ 5″,98		
,, ,, *—Zenith Sector*	4 5,15		
,, ,, ,, ,, when brought again to the Observatory	4 4,13		
,, ,, *—Circular Instrument* when received again at the Observatory	4 7,04		
		13 4 5,59	
			4 8,38
By Observations of the *Stars* with the *Circular Instrument* when received again at the Observatory			4 10,11
,, ,, *Sun* and *Stars combined—Circular Instrument*			4 8,67
LATITUDE *of the* OBSERVATORY			13 4 8,96

or 13° 4′ 9″ *N.*

The LATITUDE before allowed was 13° 4′ 9″,1 N.

Fort St. George Church Steeple is 36″ *N. of the Observatory. The* LATITUDE *of the* STEEPLE *is therefore* 13° 4′ 45″ *N.*

OF THE

LONGITUDE

OF THE

MADRAS OBSERVATORY.

*INTRODUCTION.**

In the present advanced state of knowledge it may be useless to dwell upon the importance to Navigation, as well as to general Geography, of correct information relative to the Latitudes and Longitudes of the principal Places on the surface of our Globe. The ease with which the situation of a place *on* the Meridian is obtained, for general purposes, is well known, and the comparative difficulty of ascertaining the distance, east or west, *from* a given Meridian is equally so, particularly where that Meridian is a quarter of the Globe distant—which is the case as relates to India. Having, however, *one* point correctly determined, the Situations of others, at moderate distances from it, may be come at with greater facility; either by Chronometers, by Correspondent Observations, or, where places are on the same Continent, by actual Survey.

One of the best methods of determining the position of a Point, thus distant from the *First Meridian*, is by *Eclipses of the Satellites of Jupiter*. Correspondent Observations of Eclipses of the Sun, of the Moon, or of Occultations, happen but seldom, and the method by the Moon's Transit requires, that the position of that Luminary should be correctly set down in the Tables; or, in the case of Correspondent Transits, that the Instruments at both Places should be most accurately placed in the Meridian, and the Transits taken with the least possible error of observation; as only a very small error in the Tables, or in the observed place of the Moon, may produce a considerable one in the Result. But Eclipses of the Satellites of Jupiter occur often, and Correspondent ones with those taken at Greenwich, are not *very* unfrequent, even in this distant part of the Globe. The Observations taken at Greenwich also show the difference or error of the Tables, and consequently, the error of the Longitude deduced from them. Errors also which may arise from a difference in the powers of the Telescopes, and in the eyes of Observers, as well as from a general difference in the state of the Atmosphere, may be counterbalanced by taking a series of these Eclipses, consisting of Immersions as well as Emersions.

I shall, therefore, for the present at least, as regards *the Longitude of Madras*, draw a Conclusion from these Eclipses; a very long Catalogue of which, has been taken at the *Madras Observatory*. So numerous, indeed, are these Observations, that the Longitude of Madras, which I may give at a future time, by other Methods, may perhaps be considered more as corroborating *that* now deduced, than as furnishing information for correcting it.

We may now, however, notice a Result obtained from Lunar Observations. Of these, about 800 have been taken at various times since the year 1787, with different Sextants; and reduced to the Observatory, give its Longitude 2′ 55″,5 more than by the Satellites. This will furnish us with a Correction for numerous Observations of this description taken at Bombay, when we come to treat of the Longitude of that Place.

* This is the first part of a Paper sent to the *Royal Society*, and printed in the *Philosophical Transactions*.

The First Set of the following Eclipses is composed of Observations taken at different Places in India; *the differences of Meridians* between which and the Observatory are correctly known—either from Correspondent Eclipses, Chronometers, or by Survey. These having been taken with different Telescopes, and by different Observers, and also at a distance from the Observatory, may be considered as less valuable than those observed there, with the same description of Telescope, and under every favourable circumstance.

The Second Result is from Eclipses taken at Madras, with different Telescopes, at two or three different points, and reduced to the Observatory. These may also be considered of less value than the third Result, which is deduced from Eclipses taken at the Observatory with the same description of Telescope, and under favourable circumstances. I have, therefore, in drawing the Conclusion, considered a Mean of the first and second Results as about equal in value to the third, and have combined them accordingly. The fourth Result is from *Correspondent Eclipses*, which I have considered of equal value with the other three Results. This relates to the *first* series of Eclipses from 1787 to 1801.

In the *Second Series*, containing Eclipses taken between the years 1803 and 1816, the first Result was deduced from Observations taken at the Observatory with the same description of Telescope, and is therefore of equal value with the Mean of the two first Results, and also with the third of the other Series; and the Results have been combined accordingly. *The Second Result* of the *Second Series* is obtained from *Correspondent Eclipses*; and, like the former, by Observations of this description, is considered of equal value with the Mean of all the Results found by correcting the Tables.* The differences, applied to the Longitude, found by the Tables in the Ephemeris, were obtained by Eclipses taken at Greenwich, as near the time as possible that each Eclipse was observed at Madras.

The following are the Observations and Results. It may be proper to state—that some additional Observations were at first included in these Tables; that a Mean was taken; and, when any Longitude differed more than 30 seconds from the Mean, it was rejected; and it is only those Eclipses which were within 30 seconds of the *general Mean* that are here included. The Observations being so numerous, enabled me to make this Selection. The *general Result* in both instances is however very nearly the same—as is commonly the case—the rejected Observations giving Results greater as well as less than the truth—and these often in nearly equal proportions.†

* In drawing the Conclusion, I have combined *all* the Correspondent Eclipses.

† In finding the Difference of the Tables, reference has been had to the circumstances under which the Greenwich Observation *nearest* the time was taken, and to its value in consequence; as well as to other Observations taken *about* the time.

LONGITUDE *of the* MADRAS OBSERVATORY *by the* ECLIPSES *of the* SATELLITES *of* JUPITER, *from* 1787 *to* 1801, *corrected for the difference of the Tables from the Observations taken at Greenwich, at or about the time of each Eclipse.*

Day.	Place.	Satellites.	Apparent Time. Observed at Madras.	Apparent Time. By the Ephemeris.	Longitude in Time.	Difference of the Tables.	Corrected Longitude.	Difference of Longitude to the Observatory.	Longitude of the Observatory.
1787.			h. m. s.	h. m. s.	h. m. s.	m. s.	h. m. s.	m. s.	h. m. s.
Feb. 9	Calcutta.	1 E	8 33 13	2 39 36	5 53 37	+ 14	5 53 51	—32 25,2	5 21 25,8
16	——	1 E	10 29 26	4 35 34	5 53 52	14	5 54 6	32 25,2	5 21 40,8
22	——	2 E	8 26 48	2 33 48	5 53 00	1 20	5 54 20	32 25,2	5 21 54,8
25	——	1 E	6 55 22	1 1 23	5 53 59	14	5 54 13	32 25,2	5 21 47,8
1789.									
Dec. 17	Coringa.	1 I	17 6 58,5	11 38 41	5 28 17,5	27	5 28 44,5	8 19,7	5 20 24,8
19	——	1 I	11 34 23,2	6 6 9	5 28 14,2	28	5 28 42,2	8 19,7	5 20 22,5
29	——	2 I	13 28 53	8 0 17	5 28 36	12	5 28 48	8 19,7	5 20 28,3
1790.									
Jan. 2	——	1 I	15 14 41,4	9 46 9	5 28 32,4	32	5 29 4,4	8 19,7	5 20 44,7
23	Masulipatam.	2 I	10 15 49	4 51 46	5 24 3	47	5 24 50	3 39,7	5 21 10,3
Feb. 1	——	1 I	17 4 4	11 40 3	5 24 1	39	5 24 40	3 39,7	5 20 0,3
26	——	1 E	13 59 46	8 55 24	5 24 22	48	5 25 10	3 39,7	5 21 30,3
1791.									
Jan. 5	Bombay.	1 I	17 30 54,3	12 40 6	4 50 48,3	30	4 51 18,3	+29 38,4	5 20 56,7
7	——	1 I	11 58 2	7 7 42	4 50 20	32	4 50 52	29 38,4	5 20 30,4
Feb. 20	——	1 I	17 41 35	12 50 52	4 50 43	24	4 51 7	29 38,4	5 20 45,4
22	——	1 I	12 10 3	7 19 32	4 50 31	26	4 50 57	29 38,4	5 20 25,4
March 1	——	1 I	14 5 10,5	9 14 43	4 50 27,5	35	4 51 2,5	29 38,4	5 20 40,9
8	——	1 I	16 0 31,5	11 10 21	4 50 10,5	30	4 50 40,5	29 38,4	5 20 18,9
24	——	1 E	16 35 26	11 43 39	4 51 47	19	4 52 6	29 38,4	5 21 44,4
April 4	——	1 E	7 29 30	2 38 16	4 51 14	39	4 51 53	29 38,4	5 21 31,4
11	——	1 E	9 25 39	4 34 37	4 51 2	34	4 51 36	29 38,4	5 21 14,4
18	——	1 E	11 22 31	6 30 47	4 51 44	36,3	4 52 20,3	29 38,4	5 21 58,7
25	——	1 E	13 17 51,2	8 26 45	4 51 6,2	43	4 51 49,2	29 38,4	5 21 27,6
27	——	1 E	7 46 41,2	2 55 41	4 51 0,2	43	4 51 43,2	29 38,4	5 21 21,6
May 27	——	1 E	9 54 2,8	5 3 18	4 50 44,8	51	4 51 35,8	29 38,4	5 21 14,6
1789.									
Jan. 29	Tranquebar.	2 E	14 21 10	9 1 26	5 19 44	— 12	5 19 32	1 34	5 21 6
31	——	1 E	10 40 54	5 22 5	5 18 49	+1 10	5 19 59	1 34	5 21 33
Feb. 14	——	1 E	14 29 56	9 10 25	5 19 31	12,5	5 19 43,5	1 34	5 21 17,5
23	——	1 E	10 54 17	5 34 36	5 19 41	12,5	5 19 53,5	1 34	5 21 27,5
May 28	——	1 E	6 33 4	1 13 20	5 19 44	20	5 20 4	1 34	5 21 38
1790.									
Jan. 23	——	2 I	10 10 12	4 51 46	5 18 26	1 6	5 19 32	1 34	5 21 6
25	——	1 I	15 5 52	9 47 23	5 18 29	38	5 19 7	1 34	5 20 41
30	——	2 I	12 43 29	7 25 39	5 17 50	1 6	5 18 56	1 34	5 20 50
1787.									
Nov. 19	Madras.	2 I	8 18 51	2 58 8	5 20 46	1 7	5 21 53	— 1,2	5 21 51,8
Dec. 21	——	2 E	10 35 57	5 14 3	5 21 54	— 27	5 21 27	1,2	5 21 25,8
28	——	2 E	13 10 10	7 48 32	5 21 38	27	5 21 11	1,2	5 21 9,8
1788.									
Jan. 27	——	1 E	13 1 14	7 41 6	5 20 8	+ 50	5 20 58	1,2	5 20 56,8
Feb. 12	——	1 E	11 19 3	5 58 43	5 20 20	50	5 21 10	1,2	5 21 8,8
23	——	2 E	10 1 56	4 42 0	5 19 56	1 14	5 21 10	1,2	5 21 8,8
March 22	——	1 E	10 1 47,8	4 40 53	5 20 51,8	12	5 21 6,8	1,2	5 21 5,6
31	——	1 E	6 28 44,2	1 7 51	5 20 50,2	12	5 21 2,2	1,2	5 21 1
April 23	——	1 E	6 49 43,5	1 28 48	5 20 55,5	— 3	5 20 52,5	1,2	5 20 51,3
Nov. 5	——	1 I	15 44 47,1	10 24 20	5 20 27,1	+ 52	5 21 19,1	5,4	5 21 13,7
11	——	1 I	12 5 39,9	6 45 9	5 20 30,9	52	5 21 22,3	5,4	5 21 16,9
28	——	1 I	15 48 47,6	10 28 10	5 20 37,6	1 0	5 21 37,6	5,4	5 21 32,2
30	——	1 I	10 16 37,8	4 55 52	5 20 45,8	1 0	5 21 45,8	5,4	5 21 40,4
1789.									
April 3	——	1 E	9 37 3	4 16 27	5 20 36	27	5 21 3	1	5 21 2
26	——	1 E	9 56 17,6	4 35 36	5 20 41,6	20	5 21 1,6	1,2	5 21 0,4
1790.									
Jan. 25	——	1 I	15 7 51,7	9 47 23	5 20 28,7	38	5 21 6,7	9,4	5 20 57,3
30	——	2 I	12 46 18,1	7 25 39	5 20 39,1	1 6	5 21 45,1	9,4	5 21 35,7
Feb. 3	——	1 I	11 28 48,9	6 8 19	5 20 29,9	40	5 21 9,9	1,2	5 21 8,7
10	——	1 I	13 22 13,3	8 1 58	5 20 15,3	40	5 20 55,3	1,2	5 20 54,1
26	——	1 E	13 55 29	8 35 24	5 20 5	48	5 20 53	1,2	5 20 51,8
28	——	1 E	8 24 25,2	3 4 17	5 20 8,2	48	5 20 56,2	1,2	5 20 55
March 14	——	1 E	12 16 39,3	6 56 19	5 20 20,3	32	5 20 52,3	1,2	5 20 51,1
21	——	1 E	14 13 00	8 52 45	5 20 15	52	5 21 7	1,2	5 21 5,8
April 6	——	1 E	12 35 42,8	7 15 20	5 20 22,8	48	5 21 10,8	1,2	5 21 9,6
8	——	1 E	7 4 30,9	1 44 27	5 20 3,9	48	5 20 51,9	1,2	5 20 50,7

Day.	Place.	Satellites.	Apparent Time. Observed at Madras.			Apparent Time. By the Ephemeris.			Longitude in Time.			Difference of the Tables.			Corrected Longitude.			Difference of Longitude to the Observatory.			Longitude of the Observatory.		
1790.			h.	m.	s.	h.	m.	s.	h.	m.	s.		m.	s.	h.	m.	s.			s.	h.	m.	s.
April 15	Madras.	1 E	9	0	55,4	3	40	50	5	20	5,4	+	49		5	20	54,4	—		1,2	5	20	53,2
22	——	1 E	10	57	13,4	5	36	58	5	20	15,4		49		5	21	4,4			1,2	5	21	3,2
1792.																							
March 19	——	1 I	15	46	24,3	10	25	55	5	20	29,3		51		5	21	23,3	+		0,2	5	21	23,5
21	——	1 I	10	15	37	4	54	57	5	20	40		54		5	21	34			0,2	5	21	34,2
28	——	1 I	12	11	21,2	6	51	7	5	20	14,2		48		5	21	2,2			0,2	5	21	2,4
May 13	——	1 E	14	52	5,5	9	31	40	5	20	25,5		30		5	20	55,5			0,2	5	20	55,7

The Coringa, Masulipatam, and Tranquebar Observations were taken by the late Mr. TOPPING: the Calcutta Observations also by the late Mr. TOPPING: the Bombay Observations by myself.

AT THE MADRAS OBSERVATORY.

Day.	Satellites.	Apparent Time. Observed at Madras.			Apparent Time. By the Ephemeris.			Longitude in Time.			Difference of the Tables.			Corrected Longitude.		
1793.		h.	m.	s.	h.	m.	s.	h.	m.	s.		m.	s.	h.	m.	s.
March 24	1 I	13	7	11	7	46	44	5	20	27	+		24	5	20	51
31	1 I	15	2	57	9	42	32	5	20	25			24	5	20	49
April 7	1 I	16	58	46,4	11	38	19	5	20	27,4			50	5	21	17,4
9	1 I	11	27	22,9	6	7	16	5	20	6,9			50	5	20	56,9
16	1 I	13	3	29,7	8	2	58	5	20	31,7			50	5	21	21,7
May 1	2 I	13	12	46,2	7	53	9	5	19	37,2		1	34	5	21	11,2

IN THE MADRAS OBSERVATIONS which follow, sometimes three Observers have taken the Eclipse, sometimes two; but all the Telescopes have the same Power, and are exactly of the same Construction—having been made by DOLLOND at one and the same time.

The two Assistants at the Observatory are *Bramins*; the head Assistant is named SENVASSACHARY, and the second VERDACHARY.

ECLIPSES *from* 1794 *to* 1801, *with the same description of* TELESCOPE.

Day.	Place.	Satellites.	Apparent Time. Observed at Madras.			Apparent Time. By the Ephemeris.			Longitude in Time.			Difference of the Tables.		Longitude of the Observatory.		
			h.	m.	s.	h.	m.	s.	h.	m.	s.		m. s.	h.	m.	s.
1794.	Madras															
May 5	Observatory.	1 I	14	38	47	9	18	53	5	19	54	+	48	5	20	42
12	——	1 I	16	33	14,3	11	13	2	5	20	12,3		1 14	5	21	26,3
21	——	1 I	12	55	24,5	7	35	11	5	20	13,5		1 14	5	21	27,5
28	——	1 I	14	48	46	9	28	37	5	20	19		1 16	5	21	25
30	——	1 I	9	16	39,6	3	56	54	5	19	45,6		1 16	5	21	1,6
June 4	——	1 I	16	41	41,3	11	21	44	5	19	57,3		1 18	5	21	15,3
6	——	1 I	11	9	53	5	49	59	5	19	54		1 18	5	21	12
10	——	2 I	16	52	37	11	32	26	5	20	11		1 2	5	21	13
1795.																
Sept. 4	——	1 E	9	57	44,5	4	37	10	5	20	34,5		17	5	20	51,5
11	——	1 E	11	55	37,5	6	35	11	5	20	26,5		23,6	5	20	50,1
1796.																
July 22	——	1 I	10	30	14,9	5	9	28	5	20	46,9		20,4	5	21	7,3
29	——	1 I	12	24	15	7	3	33	5	20	42		20	5	21	2
Sept. 13	——	1 E	15	14	3,6	9	53	8	5	20	55,6		10,2	5	21	5,8
1797.																
Oct. 18	——	1 E	15	27	59,5	10	7	7	5	20	52,5		39,9	5	21	32,4
20	——	1 E	9	56	39,3	4	36	9	5	20	30,3		40	5	21	10,3
Nov. 3	——	1 E	13	47	55,7	8	27	20	5	20	35,7		37,7	5	21	13,4
5	——	1 E	8	16	26,7	2	56	6	5	20	20,7		41,4	5	21	2,1
12	——	1 E	10	11	14,3	4	30	49	5	20	25,3		49,2	5	21	14,5
1798.																
Jan. 29	——	1 E	6	56	37,3	1	35	51	5	20	46,3		14,6	5	21	0,9
Feb. 21	——	1 E	7	13	4,8	1	52	21	5	20	43,8		8,1	5	20	51,9
Oct. 7	——	1 I	13	1	48	7	40	24	5	21	24		16	5	21	8
16	——	1 I	9	26	12,3	4	4	53	5	21	19,3		12,5	5	21	6,8
——	——	2 I	11	29	32	6	8	50	5	20	42		3,4	5	20	45,4
23	——	1 I	11	21	24,2	6	0	2	5	21	22,2	—	15	5	21	7,2
30	——	1 I	13	15	57,8	7	54	41	5	21	16,8		17	5	20	59,8
Nov. 17	——	1 E	8	7	14	2	46	43	5	20	29	+	35	5	21	4
——	——	2 E	13	45	17,8	8	22	26	5	22	51,8	—1	18	5	21	33,8
Dec. 12	——	2 E	10	47	12,5	5	25	34	5	21	38,5		20,9	5	21	17,6
1799.																
Jan. 16	——	1 E	12	1	19,6	6	40	36	5	20	43,6	+	36	5	21	19,6
18	——	1 E	6	29	15,2	1	8	56	5	20	19,2		35	5	20	54,2
25	——	1 E	8	23	10,5	3	2	42	5	20	28,5		30	5	20	58,5
Oct. 3	——	1 I	14	34	57,6	9	14	1	5	20	56,6		8,2	5	21	4,8
10	——	1 I	16	30	18,7	11	9	26	5	20	52,7	—	0,7	5	20	52
Sept. 15	——	2 I	13	32	42,6	8	14	34	5	21	8,6	+	21	5	21	9,6
1800.																
Feb. 6	——	1 E	8	4	35,5	2	44	8	5	20	27,5		37	5	21	4,5
13	——	1 E	10	0	4,8	4	39	12	5	20	52,8		30	5	21	22,8
March 24	——	1 E	8	42	25	3	21	38	5	20	47		0,0	5	20	47
Nov. 23	——	1 I	12	37	19,2	7	16	37	5	20	42,2		30,6	5	21	12,8

CORRESPONDENT ECLIPSES *of the* SATELLITES *of* JUPITER, *from the year* 1787 *to* 1800.

Day.	Place.	Satellites.	Apparent Time. Observed Place. h.	m.	s.	Apparent Time. At Greenwich. h.	m.	s.	Longitude in Time. h.	m.	s.	Difference of Longitude to the Observatory. m.	s.	Longitude of the Observatory. h.	m.	s.
1787.																
Dec. 21	Madras.	2 E	10	35	57	5	14	30	5	21	27	—	1,2	5	21	25,8
1789.																
Dec. 17	Coringa.	1 I	17	6	58,5	11	38	14	5	28	44,5	8	21,7	5	20	22,8
1790.																
Jan. 25	Madras.	1 I	15	7	51,7	9	46	45	5	21	6,7		1,2	5	21	5,5
Feb. 26	Masulipatam.	1 E	13	59	46	8	34	36	5	25	10	3	39,7	5	21	30,3
March 3	Madras.	2 E	15	20	25,7	9	58	41	5	21	44,7		1,2	5	21	43,5
8	——	3 E	12	27	45,5	7	6	39	5	21	6,5		1,2	5	21	5,3
21	——	1 E	14	13	00	8	51	53	5	21	7		1,2	5	21	5,8
1791.																
March 1	Bombay.	1 I	14	5	10,5	9	14	8	4	51	2,5	+ 29	38,3	5	20	40,8
—	——	3 I	15	22	12	10	31	15	4	50	57	29	38,3	5	20	35,3
24	——	1 E	16	35	26	11	43	20	4	52	6	29	38,3	5	21	44,3
April 25	——	1 E	13	17	51,2	8	26	2	4	51	49,2	29	38,3	5	21	27,5
1792.																
March 19	Madras.	1 I	15	46	24,3	10	25	19	5	21	5,3			5	21	5,3
April 11	——	1 I	16	3	35	10	42	55	5	21	00			5	21	00
1793.																
May 8	Masulipatam.	2 I	15	50	11,4	10	25	36	5	24	35,4	— 3	39,7	5	20	55,7
1794.																
June 10	Madras Observatory.	2 I	16	52	37	11	31	24						5	21	13
1796.																
Sept. 13	——	1 E	15	14	3,6	9	52	57,8						5	21	5,8
1797.																
Oct. 18	——	1 E	15	27	59,5	10	6	25						5	21	34,5
1798.																
Nov. 15	——	1 E	13	39	55,5	8	17	53,1						5	22	2,4
Dec. 12	——	2 E	10	47	12,5	5	25	54,8						5	21	17,7
1799.																
Jan. 16	——	1 E	12	1	19,6	6	40	0,2						5	21	19,4
Oct. 10	——	1 I	16	30	18,7	11	9	26,7						5	20	52

RESULTS

By the First and Second Satellites, observed at different places in India, but reduced to the Madras Observatory. Longitude by

Immersions.			Emersions.		
h.	m.	s.	h.	m.	s.
5	20	21, 8	5	21	25, 8
	20	22, 5		21	40, 8
	20	28, 3		21	54, 3
	20	24, 7		21	47, 3
	21	11, 7		21	31, 7
	21	1, 7		21	44, 4
	20	56, 7		21	31, 4
	20	30, 4		21	14, 4
	20	45, 4		21	58, 7
	20	35, 4		21	27, 6
	20	40, 9		21	21, 6
	20	18, 9		21	14, 2
	21	6, 0		21	6, 0
	20	41, 0		21	33, 0
	20	30, 0		21	17, 5
				21	27, 5
5	20	41,23		21	38, 0
				21	31,48
				20	41,23
			Mean	5	21 6,35 L

RESULTS.

First and Second Satellites observed at Madras. Longitude by

Immersions.			Emersions.		
h.	m.	s.	h.	m.	s.
5	21	51, 8	5	21	25, 8
	21	13, 7		21	9, 8
	21	16, 9		20	56, 8
	21	32, 2		21	8, 8
	21	40, 4		21	8, 8
	20	57, 3		21	5, 6
	21	35, 7		21	1, 0
	21	8, 7		20	51, 3
	20	54, 1		21	2, 0
	21	23, 5		20	0, 4
	21	34, 2		20	51, 8
	21	2, 4		20	55, 0
	20	51, 0		20	51, 1
	20	49, 0		20	5, 8
	21	17, 4		21	9, 6
	20	56, 9		20	50, 7
	20	21, 7		20	53, 2
	21	11, 2		21	3, 2
				20	55, 7
5	21	15,45			
			5	21	1,39
				21	15,45
			Mean	5	21 8,42

RESULTS

By Eclipses from 1794 to 1801. First and Second Satellites observed at Madras, with the same Telescope. Longitude by

Immersions.			Emersions.		
h.	m.	s.	h.	m.	s.
5	20	42, 0	5	20	51, 5
	21	26, 3		20	50, 1
	21	27, 5		21	5, 8
	21	25, 0		21	32, 4
	21	1, 6		21	10, 3
	21	15, 3		21	18, 4
	21	12, 0		21	2, 1
	21	13, 0		21	14, 5
	21	7, 3		21	0, 9
	21	2, 0		20	51, 9
	21	8, 0		21	4, 0
	21	6, 8		21	33, 8
	20	45, 4		21	17, 6
	21	7, 2		21	19, 6
	20	59, 8		20	54, 2
	21	29, 6		20	58, 5
	21	4, 8		21	4, 5
	20	52, 0		21	22, 8
	21	12, 8		20	47, 0
5	21	8,34		5	21 7, 1
				21	8,34
			Mean	5	21 7,72

RESULTS.

Correspondent Eclipses from 1787 to 1800. First, Second, and Third Satellites. Longitude by

Immersions.			Emersions.		
h.	m.	s.	h.	m.	s.
5	20	22, 8	5	21	25, 8
	21	5, 5		21	30, 3
	20	40, 8		21	43, 5
	20	35, 3		21	5, 3
	21	5, 3		21	5, 8
	21	0, 0		21	44, 3
	20	55, 7		21	27, 5
	21	18, 0		21	5, 8
	20	52, 0		21	34, 5
				22	2, 4
				21	17, 7
				21	19, 4

LONGITUDE *of the* OBSERVATORY *by correcting the* TABLES, *from* 1803 *to* 1815.

Date.	Satellites.	Immersions or Emersions.	Mean Time by the Nautical Almanac.			Mean Time observed at Madras.			Longitude of Madras by Tables.			Difference of the Tables.			Longitude of Madras.		
			h.	m.	s.	h.	m.	s.	h.	m.	s.		m.	s.	h.	m.	s.
1803.																	
Feb. 1	1	Im.	6	1	52	11	23	14,53	5	21	22,43	−0	18,0		5	21	4,4
18	2	Im.	8	5	34	13	27	1,39	5	21	27,39	0	28,0		5	20	59,4
March 15	2	Im.	5	5	33	10	26	35,37	5	21	2,37	0	28,0		5	20	34,4
April 2	2	Em.	2	11	22	7	32	18,48	5	20	56,48	+0	24,0		5	21	20,5
20	1	Em.	5	6	25	10	27	32,30	5	21	7,30	−0	21,0		5	20	46,3
27	1	Em.	7	0	45	12	21	46,86	5	21	1,66	0	21,0		5	20	40,6
May 13	1	Em.	5	18	17	10	39	19,66	5	21	2,66						
20	1	Em.	7	12	47	12	33	55,26	5	21	8,26						
July 7	1	Em.	2	6	1	7	27	20,01	5	21	19,01	+0	6,0		5	21	25,0
1804.																	
Jan. 12	1	Im.	8	44	19	14	5	7,60	5	20	48,60						
26	1	Im.	12	31	8	17	15	19,15	5	21	2,15				5	21	6,7
April 22	1	Em.	7	52	54	13	14	13,19	5	21	19,19	0	4,5		5	21	21,7
24	1	Em.	2	21	23	7	42	42,67	5	21	19,67				5	21	21,2
May 1	1	Em.	4	15	41	9	36	40,83	5	20	59,83				5	21	4,3
4	2	Em.	2	45	28	8	6	51,90	5	21	23,90	0	9,5		5	21	33,4
8	1	Em.	6	10	3	11	30	41,90	5	20	38,90				5	20	48,4
1805.																	
March 10	1	Im.	8	15	31	13	36	34,63	5	21	3,63						
23	2	Im.	10	33	21	15	55	11,66	5	21	50,66						
24	1	Im.	12	2	28	17	23	25,33	5	20	57,33						
26	1	Im.	6	30	54	11	51	59,60	5	20	56,60						
April 2	1	Im.	8	24	52	13	46	25,56	5	20	53,56						
18	1	Im.	6	40	25	12	1	18,63	5	20	53,63						
25	1	Im.	8	34	21	13	55	11,33	5	20	50,33						
May 4	1	Im.	4	57	0	10	18	17,34	5	21	17,34						
July 21	1	Em.	4	7	35	9	28	4,35	5	20	29,35						
28	1	Em.	6	2	42	11	23	21,26	5	20	42,26						
1806.																	
Feb. 18	1	Im.	11	6	43	16	27	34,86	5	20	51,86						
April 14	1	Im.	7	44	31	13	5	0,71	5	20	29,71						
18	2	Im.	9	0	9	14	21	47,09	5	21	38,09						
21	1	Im.	9	37	57	14	58	50,76	5	20	53,76						
May 14	1	Im.	9	47	11	15	7	53,87	5	20	42,87	+0	34,0		5	21	16,9
27	2	Im.	11	6	52	16	28	55,43	5	22	3,43						
Sept. 4	2	Em.	1	46	52	7	7	43,26	5	20	51,26	0	12,0		5	21	3,2
Oct. 6	2	Em.	1	28	30	6	49	16,34	5	20	46,34	−0	22,0		5	21	8,3
1807.																	
May. 3	1	Im.	9	11	7	14	32	19,06	5	21	12,06						
10	1	Im.	11	4	31	16	25	40,30	5	21	9,30						
26	1	Im.	9	19	47	14	41	3,23	5	21	16,23						
June 2	1	Im.	11	13	22	16	34	32,96	5	21	10,96						
Aug. 11	2	Em.	6	58	31	12	14	41,88	5	21	10,88	+0	15,5		5	21	26,4
29	2	Em.	1	21	19	6	42	12, 8	5	20	53,8				5	21	9,3
30	1	Em.	1	20	20	6	41	8, 6	5	20	48,6	0	15,5		5	21	4,1
Oct. 6	1	Em.	5	27	36	10	48	26, 1	5	20	50,1	0	8,0		5	20	58,1
22	1	Em.	3	48	10	9	9	2,	5	20	50,0	−0	3,2		5	20	48,8
Nov. 7	1	Em.	2	8	52	7	29	40,	5	20	47,0	+0	1,4		5	20	48,4
1808.																	
May 21	1	Im.	10	53	36	16	14	40,18	5	21	4,18						
June 13	1	Im.	11	2	31	16	23	43,57	5	21	12,57						
22	2	Im.	12	5	34	17	26	29,67	5	20	58,67						
29	1	Im.	9	18	9	14	39	22,54	5	21	13,54						
Sept. 17	1	Em.	2	57	48	8	18	15,16	5	20	27,16	+0	24,5		5	20	51,7
Oct. 26	1	Em.	1	32	53	6	54	0,83	5	21	7,83	−0	12,0		5	20	55,8
Nov. 9	1	Em.	5	24	37	10	45	39,37	5	21	2,37		...		5	21	2,4
1809.																	
Aug. 26	1	Im.	9	38	18	14	59	22,31	5	21	4,31	0	19,1		5	20	45,2
Oct. 22	1	Em.	3	1	58	8	23	1,32	5	21	3,32		...		5	21	3,3
Nov. 5	1	Em.	6	52	11	12	13	14,46	5	21	3,46	+0	2,0		5	21	5,5
7	1	Em.	1	20	58	6	42	2,04	5	21	4,04	0	3,5		5	21	7,5
14	1	Em.	3	16	19	8	37	26,98	5	21	7,98	0	4,8		5	21	12,8
Dec. 4	2	Em.	5	8	22	10	28	37,28	5	20	15,28	0	50,3		5	21	5,5
7	1	Em.	3	32	10	8	53	9,75	5	20	59,75	0	2,0		5	20	59,9
23	1	Em.	1	52	51	7	14	1,27	5	21	10,27	0	1,5		5	21	11,8
29	2	Em.	2	15	46	7	36	15,20	5	20	29,20						
30	1	Em.	3	48	50	9	10	4,25	5	21	14,25	0	1,0		5	21	15,2

Date.	Satellites.	Immersions or Emersions.	Mean Time by the Nautical Almanac.	Mean Time observed at Madras.	Longitude of Madras by Tables.	Difference of the Tables.	Longitude of Madras.
			h. m. s.	h. m. s.	h. m. s.	m. s.	h. m. s.
1810.							
Jan. 30	2	Em.	1 58 10	7 18 42,93	5 20 32,93		
March 3	2	Em.	1 39 14	7 0 5,25	5 20 51,25	+0 12,4	5 21 3,7
June 10	2	Im.	11 44 27	17 5 20,07	5 20 53,07		
July 30	1	Im.	11 13 50	16 34 48,95	5 20 58,95		
Oct. 9	1	Im.	6 9 57	11 30 55,63	5 20 58,63	0 6,7	5 20 51,9
Nov. 2	2	Em.	2 15 16	7 35 49,93	5 20 33,93		
28	2	Em.	4 52 56	10 13 17,72	5 20 21,72		
Dec. 3	1	Em.	5 2 44	10 23 31,81	5 20 47,81	0 23,8	5 21 11,6
1811.							
Jan. 4	1	Em.	1 41 2	7 1 30,77	5 20 28,77	1 0,3	5 21 28,8
11	1	Em.	3 36 33	8 57 7,86	5 20 34,86	1 0,3	5 21 35,2
24	2	Em.	1 52 15	7 12 43,12	5 20 28,12	1 6,0	5 21 34,1
31	2	Em.	4 29 15	9 49 19,04	5 20 4,04	1 6,0	5 21 10
Feb. 25	2	Em.	1 37 40	6 57 57,54	5 20 17,54	1 6,0	5 21 23,5
March 29	2	Em.	1 20 10	6 39 58,61	5 19 48,61	1 6,0	5 20 54,6
Oct. 12	1	Im.	9 37 4	14 58 22,99	5 21 18,99	0 2,4	5 21 21,4
Nov. 11	2	Im.	9 44 25	15 6 54,36	5 22 29,36	—0 56,1	5 21 33,3
	1	Im.	11 39 6	17 0 15,28	5 21 9,28		5 21 14,9
Dec. 6	1	Im.	6 16 55	11 37 43,76	5 20 48,76	+0 5,6	5 20 54,3
	2	Im.	6 52 49	12 14 23,57	5 21 31,57		
31	2	Em.	6 46 28	12 7 17,03	5 20 49,03	0 5,6	5 20 54,6
1812.							
Jan. 14	1	Em.	6 56 28	12 17 6,94	5 20 28,94	0 19,0	5 20 47,9
21	1	Em.	8 31 23	14 11 57,31	5 20 34,31	0 24,0	5 20 54,2
Feb. 1	2	Em.	6 35 36	11 55 30,48	5 19 54,48		
6	1	Em.	7 9 59	12 30 33,79	5 20 34,79	32,4	5 21 7,2
22	1	Em.	5 29 11	10 49 44,04	5 20 33,04		5 21 5,4
26	2	Em.	3 47 9	9 7 9,23	5 20 0,23		
March 2	1	Em.	1 53 17	7 13 47,50	5 20 30,50		5 20 47,3
16	1	Em.	5 44 6	11 4 46,49	5 20 40,49	16,8	5 20 57,3
25	1	Em.	2 8 26	7 29 28,86	5 21 2,86		5 21 19,7
Oct. 7	1	Im.	10 57 17	16 19 9,65	5 21 52,65		
30	1	Im.	11 6 0	16 27 5,50	5 21 5,50		
Nov. 4	2	Im.	8 42 5	14 3 59,53	5 21 54,53	—0 46,8	5 21 7,7
11	2	Im.	11 16 57	16 38 46,31	5 21 49,31		5 21 2,5
Dec. 15	1	Im.	11 22 43	16 43 50,24	5 21 7,24	1,1	5 21 6,1
17	1	Im.	5 51 3	11 12 9,32	5 21 6,32		5 21 5,2
31	1	Im.	9 38 4	14 59 12,46	5 21 8,46		5 21 7,4
1813.							
Jan. 2	1	Im.	4 6 30	9 27 13,81	5 20 43,81		
7	2	Im.	8 2 42	13 23 46,62	5 21 4,62		
	1	Im.	11 31 42	16 52 36,75	5 20 54,75		
25	2	Em.	5 27 49	10 48 42,74	5 20 53,74		
Feb. 1	2	Em.	8 4 53	13 25 26,74	5 20 33,74		
10	1	Em.	4 47 55	10 8 56,35	5 21 1,35	+ 8,5	5 21 9,8
19	2	Em.	2 38 41	7 59 6,12	5 20 25,1	11,9	5 20 37,0
26	1	Em.	3 5 9	8 26 26,55	5 21 7,5		5 21 16,0
March 5	1	Em.	4 59 53	10 20 37,67	5 20 44,6	8,5	5 20 53,1
12	1	Em.	6 54 34	12 15 21,18	5 20 47,2		5 20 55,7
21	1	Em.	3 17 58	8 39 15,40	5 21 17,4	8,5	5 21 25,9
23	2	Em.	2 26 47	7 47 29,87	5 20 42,87	11,9	5 20 54,8
30	2	Em.	5 4 11	10 25 32,22	5 21 21,2	11,9	5 21 33,1
April 24	2	Em.	2 14 45	7 35 41,48	5 20 56,4	11,9	5 21 8,3
29	1	Em.	1 50 9	7 11 1,16	5 20 52,1	8,5	5 21 0,6
May 22	1	Em.	2 4 2	7 25 22,66	5 21 20,6	8,5	5 21 29,1
26	2	Em.	1 59 5	7 19 57,82	5 20 52,8	11,9	5 21 4,7
Oct. 26	1	Im.	12 14 6	7 35 28,47	5 21 22,4	— 20,9	5 21 1,5
Dec. 20	1	Im.	8 53 23	14 14 56,75	5 21 33,7	22,2	5 21 11,5
1814.							
Jan. 1	2	Im.	6 46 56	12 8 56,42	5 22 0,4	50,8	5 21 0,6
19	1	Im.	10 55 16	16 16 32,23	5 21 16,2	13,6	5 21 0,6
28	1	Im.	7 17 12	12 38 36,01	5 21 24,0		5 21 8,4
Feb. 2	2	Im.	6 23 34	11 45 37,82	5 22 3,8	59,5	5 21 4,3
4	1	Im.	9 10 49	14 31 59,37	5 21 10,3		5 21 22,3
6	1	Im.	3 39 12	9 0 10,68	5 20 58,6	+ 12,0	5 21 10,6
13	1	Im.	5 32 56	10 54 6,48	5 21 10,4		5 21 22,4
March 10	1	Em.	2 25 54	7 46 46,83	5 20 52,8	12,0	5 21 4,8
17	1	Em.	4 19 58	9 41 10,77	5 21 12,7		5 21 24,7
24	1	Em.	6 14 9	11 35 39,80	5 21 30,8	12,0	5 21 42,8
31	2	Em.	6 0 27	11 21 8,95	5 20 41,9		
April 2	1	Em.	2 37 1	7 58 20,97	5 21 19,97	— 0,6	5 21 18,4
9	1	Em.	4 31 24	9 53 0,91	5 21 36,9		5 21 36,3

Date.	Satellites.	Immersions or Emersions.	Mean Time by the Nautical Almanac.	Mean Time observed at Madras.	Longitude of Madras by Tables.	Difference of the Tables.	Longitude of Madras.
1814.			h. m. s.	h. m. s.	h. m. s.	m. s.	h. m. s.
May 2	1	Em.	4 43 36	10 4 57,03	5 21 21,0	— 0,6	5 21 20,4
	2	Em.	4 48 33	11 10 6,13	5 21 33,0	. . .	5 21 32,5
June 10	1	Em.	3 14 12	8 35 10,97	5 20 59,0	0,6	5 20 58,4
Nov. 7	1	Im.	11 29 44	6 50 48,62	5 21 4,6		
1815.							
Jan. 31	1	Im.	10 11 31	15 33 4,95	5 21 13,9	} 17,3 {	5 20 56,6
Feb. 7	1	Im.	12 5 20	17 26 34,74	5 21 14,7	} 17,3 {	5 20 57,4
9	1	Im.	6 33 46	11 54 59,62	5 21 13,6	} 17,3 {	5 20 56,3
10	2	Im.	10 15 53	15 37 59,42	5 22 6,4	1 9,7	5 20 56,7
25	1	Im.	4 49 19	10 10 28,43	5 21 9,4	17,3	5 20 52,1
28	2	Im.	4 40 42	10 2 46,48	5 22 4,4	1 9,7	5 20 54,7
March 4	1	Im.	6 43 2	12 4 12,23	5 21 10,2	17,3	5 20 52,9
14	2	Im.	9 49 39	15 11 41,74	5 22 2,7	1 9,7	5 20 53,0
April 3	1	Em.	10 57 53	16 19 38,57	5 21 45,5	27,6	5 21 17,9
12	1	Em.	7 20 26	12 42 1,54	5 21 35,5	27,6	5 21 7,9
14	1	Em.	1 49 0	7 10 18,98	5 21 19,0	27,6	5 20 51,4
19	2	Em.	1 18 54	6 40 37,22	5 21 43,2	1 3,0	5 20 40,2
28	1	Em.	5 37 27	10 58 56,64	5 21 29,6	} 27,6 {	5 21 2,0
May 5	1	Em.	7 31 48	12 53 26,69	5 21 38,6	} 27,6 {	5 21 11,11

The Eclipses from 1805 to 1811, were observed during my absence in England; Captain WARREN, of His Majesty's 33d Regiment, acting at the Observatory.

BY CORRESPONDENT ECLIPSES *of the* SATELLITES *of* JUPITER *at* MADRAS *and* GREENWICH, *from* 1803 *to* 1815.

Date.	Satellites.	Immersions or Emersions.	Mean Time at Madras.	Mean Time at Greenwich.	Longitude.
1810.			h. m. s.	h. m. s.	
Aug. 22	1	Im.	16 44 2,80	11 22 47,5	5 21 15, 3
1811.					
Nov. 20	1	Im.	13 22 0,47	8 0 57,3	5 21 3,17
1812.					
Nov. 22	1	Im.	16 35 23,14	11 14 3,5	5 21 19,64
1813.					
March 12	1	Em.	12 15 21,18	6 54 12,3	5 21 8,88
1814.					
Feb. 4	1	Im.	14 31 59,37	9 10 53,4	5 21 5,97
April 7	2	Em.	13 58 34,63	8 37 6,8	5 21 27,83
1815.					
Feb. 7	1	Im.	17 26 34,74	12 5 37,3	5 20 57,44
March 14	2	Im.	15 11 41,74	9 50 48,7	5 20 53,04
April 3	1	Em.	16 19 38,57	10 58 3,2	5 21 35,37

RESULTS

By the First Satellite.

Immersions.

	h.	m.	s.
	5	21	4,4
		21	6,7
		21	16,9
		20	45,2
		20	51,9
		21	21,4
		21	14,9
		20	54,3
		21	6,1
		21	5,2
		21	7,4
		21	1,5
		21	11,5
		21	0,6
		21	8,4
		21	22,3
		21	10,6
		21	22,4
		20	56,6
		20	57,4
		20	56,3
		20	52,1
		20	52,9
Mean	5	21	3,50

Emersions.

	h.	m.	s.
	5	20	46, 3
		20	40, 6
		21	25, 0
		21	24, 7
		21	24, 2
		21	4, 3
		20	48, 4
		21	4, 1
		20	58, 1
		20	48, 8
		20	48, 4
		20	51, 7
		20	55, 8
		21	2, 4
		21	3, 3
		21	5, 5
		21	7, 5
		21	12, 8
		20	59, 9
		21	11, 8
		21	13, 2
		21	11, 6
		21	28, 2
		21	25, 2
		20	47, 9
		20	54, 3
		21	7, 2
		21	5, 4
		20	47, 3
		20	57, 3
		21	10, 7
		21	9, 8
		21	16, 0
		20	53, 1
		20	55, 7
		21	25, 9
		21	0, 6
		21	29, 1
		21	4, 8
		21	24, 7
		21	18, 4
		21	36, 3
		21	20, 4
		20	58, 4
		21	17, 9
		21	7, 9
		20	51, 4
		21	2, 0
		21	11, 0
	5	21	6,86
	5	21	3,50
Mean	5	21	5,18

By the Second Satellite.

Immersions.

	h.	m.	s.
	5	20	59, 4
		20	34, 4
		21	33, 3
		21	7, 7
		21	2, 5
		21	0, 6
		21	4, 3
		20	56, 7
		20	54, 7
		20	53, 0
	5	21	0,67

Emersions.

	h.	m.	s.
	5	21	20, 5
		21	33, 4
		21	3, 2
		21	8, 3
		21	26, 4
		21	9, 3
		21	5, 5
		21	3, 7
		21	34, 1
		21	10, 0
		21	23, 5
		20	54, 6
		20	54, 6
		20	37, 0
		20	54, 8
		21	33, 1
		21	8, 3
		21	4, 7
		21	32, 5
		20	40, 2
	5	21	9,88
	5	21	0,67
Mean	5	21	5, 3

RESULTS

By the Correspondent Eclipses from 1803 *to* 1816.

h.	m.	s.
5	21	15,30
	21	3,17
	21	19,64
	21	8,88
	21	5,97
	21	27,83
	20	57,44
	20	53,04
	21	35,37

Correspondent Eclipses from 1787 *to* 1816.

Immersions.			Emersions.		
h.	m.	s.	h.	m.	s.
5	20	22, 8	5	21	25, 8
	21	5, 5		21	30, 3
	20	40, 8		21	43, 5
	20	35, 3		21	5, 3
	21	5, 3		21	5, 8
	21	0, 0		21	44, 3
	20	55, 7		21	27, 5
	21	13,		21	5, 7
	20	52,		21	34, 5
	21	15, 3		22	2, 4
	21	3,17		21	17, 7
	21	19,64		21	19, 4
	21	5,97		21	8,88
	20	57,44		21	27,83
	20	53,04		21	35,37
5	20	57,66 Mean.	5	21	26,28 Mean.
5	21	26,28 Emersions.			
5	21	11,97 Mean.			

LONGITUDE *of the* MADRAS OBSERVATORY *from the whole of the foregoing* OBSERVATIONS. *By Correcting the* TABLES.

First and Second Satellites.

	h.	m.	s.		h.	m.	s.
Eclipses reduced to Madras,	5	21	6,35				
Observed at Madras, but not with the same Telescope,	5	21	8,42	Mean	5	21	7,77
Observed at Madras to 1802, with the same description of Telescope,					5	21	7,72
From 1802 to 1815, with Telescopes of the same Powers,					5	21	5,24
MEAN *by correcting the Tables,*					5	21	6,78
By Correspondent Observations at Greenwich, from 1787 to 1816,					5	21	11,97
MEAN, OF LONGITUDE *of the* OBSERVATORY,					5	21	9, 4
				East of Greenwich	80	17	21

Fort St. George Church-Steeple is 2′ 21″ East of the Observatory; the Longitude of the Steeple is therefore 80° 19′ 42″ East.

The Longitude of the Church by the *Lunar Observations* before alluded to, about 800 in number, taken between the years 1787 and 1792* at different parts of Madras and at Coringa, and reduced to the Observatory, is 80° 20′ 16″,5 East; and therefore, according to the Eclipses, 2′ 55″,5 too great.

* By the late Honourable W. PETRIE, Esq. the late Mr. TOPPING, and myself: the Coringa Observations by Mr. TOPPING.

Observed ZENITH DISTANCES

TAKEN AT THE

MADRAS OBSERVATORY,

With a small Circular Instrument by Troughton—Diameter 15 *Inches.*

1793. Month.	Names of Stars.	Face of the Instrument.	Observed Zenith Distances. d.	m.	s.	Thermometer. d.	Barometer.
December 3	*Polaris*	W	75	9	54	77,5	29,981
	Polaris	E	74	59	33	77,5	
	β *Phœnicis* ...		69	57	43	77,5	29,983
4	β *Cassiopeiæ* ...		44	51	20	77,5	29,975
	Polaris		75	0	25	77,5	
	Polaris	W	75	9	37,5	77,5	29,988
5	α *Phœnicis*	E	56	28	37,5	77,5	30,132
13	*Polaris*		75	4	52,5	75	
	Polaris	W	75	4	35	75	
14	α *Phœnicis* ...		56	28	36,5	75,5	30,095
	γ *Phœnicis* ...		57	25	29	75,5	
	Achernar ...		71	19	2,5	75,5	30,097
	α *Cassiopeiæ* ...	E	42	19	21,5	75,5	
	γ *Cassiopeiæ* ...		46	30	46,5	75,5	
	δ *Cassiopeiæ* ...		46	4	27,5	75,5	30,098
	Polaris	W	75	4	56	75,5	30,100
	Polaris	E	75	5	15	75,5	
21	β *Arietis*		6	43	4,5	75,4	30,090
	α *Arietis*		9	24	1,5	75,4	
22	α *Ceti*	W	9	47	45	76	30,088
23	β *Arietis*	E	6	43	4	76	
	α *Arietis*		9	24	23,5	76	
	α *Ceti*	W	9	47	30	76	
	Aldebaran ...	E	3	0	3	74,5	
	Rigel	W	21	30	37,5	74,5	
	ε *Orionis*		14	24	47	74,5	
	α *Orionis*		5	42	19	74,5	
24	α *Arietis*		9	24	47,5	77	30,094
27	α *Ceti*		9	47	22	76,5	30,090
	Aldebaran ...		3	0	24	75,8	
	Rigel	E	21	31	20,5	75	
	β *Tauri*		15	20	26,5	75	
	α *Orionis*		5	43	7	75	
30	β *Arietis*	W	6	43	40,5	76,8	30,096
	α *Arietis*		9	24	59	76,8	
	α *Ceti*	E	9	48	13,5	76,8	
	Aldebaran ...		3	0	11	76	30,095
	Rigel	W	21	30	40	76	
	β *Tauri*		15	20	57,5	75	30,092
	ε *Orionis*	E	14	25	34	75	
	α *Orionis*		5	43	15	74,4	30,095
31	*Rigel*		21	31	18	76	
	β *Tauri*	W	15	21	5	75	
	ε *Orionis*		14	24	40	75	
	α *Orionis*		5	42	31,5	75	

1794. Month.		Names of Stars.	Face of the Instrument.	Observed Zenith Distances. d.	m.	s.	Thermometer. d.	Barometer. Inches.
January	2	β *Tauri*	E	15	20	7,5	76,5	30,095
		α *Orionis*		5	43	36	76,5	
February	22	δ *Orionis*	W	13	31	58,5	77,5	30,16
		α *Orionis*		5	42	44,5	77,5	
		γ *Geminorum*	E	3	29	24	77,3	
		Pollux		15	25	59,5	75,5	
	26	β *Tauri*		15	20	25	77,5	30,19
		δ *Orionis*		13	32	18	77,5	
		ε *Orionis*		14	25	8,5	77,5	
		α *Orionis*		5	43	9	77,5	
		γ *Geminorum*		3	28	56	76,5	
		Procyon		7	19	55	76	
		Pollux		15	26	3	76	
	27	ε *Orionis*	W	14	24	46	78	30,21
		ζ *Orionis*		15	7	56,5	78	
		α *Orionis*		5	42	45	78	
		γ *Geminorum*		3	29	21	77,5	
		Castor		19	15	19,5	77,5	
		Procyon		7	19	37,5	77	
		Pollux		15	26	1	77	
	28	*Rigel*		21	31	1	78	30,18
		β *Tauri*		15	20	54,5	78	
		δ *Orionis*		13	31	55	78	
		ε *Orionis*		14	24	54	78	
		α *Orionis*	E	5	43	0,5	77	
		γ *Geminorum*		3	29	22,5	77	
		Castor		19	15	3,5	77,6	
		Pollux		15	25	56	76,6	
March	2	*Castor*	W	19	15	23	76,5	30,18
		Procyon		7	19	37	76,5	
		Pollux		15	26	24,5	76,5	
	5	γ *Geminorum*		3	29	41	80	30,14
		Castor	E	19	14	52	79,6	
		Procyon		7	19	58	79,6	
		Pollux		15	26	2	79,6	
	7	ε *Orionis*		14	25	14	79	30,05
		α *Orionis*		5	42	54,5	79	
		γ *Geminorum*		3	29	12	79	
		Procyon		7	20	1	78	
April	25	*Regulus*		0	6	23,5	82,7	29,93
	28	*Regulus*	W	0	5	57	82,8	30,0
	30	*Regulus*		0	5	58	82,8	29,98
May	1	*Regulus*	E	0	6	33,5	82,8	29,96
	2	*Regulus*		0	6	24,5	83,4	29,94
	5	*Regulus*		0	6	23	85	29,96
	6	*Regulus*	W	0	5	59,5	86,5	29,92
	8	*Regulus*		0	6	4	85,2	29,90
	21	β *Leonis*		2	39	19	86	29,93
	24	β *Leonis*	E	2	39	5	86	29,91
June	20	⊙ L. L.	W	10	39	30	92,9	29,90
	21	⊙ L. L.		10	39	44,5	91,5	29,92
	22	⊙ L. L.	E	10	39	23,5	95,5	29,88
	23	⊙ U. L.		10	7	2,5	91,7	29,89
	24	⊙ L. L.		10	37	35,5	90,6	29,89
	25	⊙ U. L.	W	10	4	29,5	87,4	29,90
	26	⊙ U. L.		10	2	37,5	91,4	29,91
	27	⊙ U. L.	E	10	0	3,5	91,2	29,88
July	14	⊙ L. L.	W	8	52	28,5	90,7	29,95
	16	⊙ L. L.	E	8	33	19	91,9	29,88
	18	⊙ U. L.		7	41	5	89,8	29,83
	20	⊙ U. L.	W	7	19	13,5	91,5	29,95
	21	⊙ L. L.		7	39	38	90,5	29,93
	23	⊙ U. L.	E	6	43	46	90,9	29,89
	24	⊙ L. L.		7	2	54	88,2	29,83
	28	⊙ U. L.	W	5	38	13	87,8	29,91
	29	⊙ L. L.		5	55	37	87,1	29,90
August	1	⊙ U. L.	E	4	39	35	86,3	29,89
	9	⊙ U. L.		2	29	21	90,1	29,93
	10	⊙ U. L.	W	2	11	53	89,4	29,84
	11	⊙ L. L.		2	26	1	87,8	29,96
	13	⊙ U. L.	E	1	17	55	85,9	29,91
	23	⊙ U. L.		1	24	23	92	29,90

1794. Month.		Names of Stars.	Face of the Instrument.	Observed Zenith Distances.			Thermometer.	Barometer.
				d.	m.	s.	d.	Inches.
August	21	☉ L. L.	W	2	17	6,5	90,2	29,91
	26	☉ U. L.		2	26	17,5	90,7	
	27	☉ L. L.	E	3	19	50	90,4	29,90
	29	☉ L. L.		4	1	56,5	91,4	
September	2	☉ L. L.	W	5	28	51	92,3	29,93
	3	☉ U. L.		5	18	48	93,8	29,89
	5	☉ U. L.	E	6	3	24	92,9	29,92
	7	☉ U. L.		6	48	3	92,8	29,90
	13	☉ L. L.		9	36	55	89,8	29,99
	19	*α Aquilæ*	W	4	43	44,5	83,6	29,98
		β Aquilæ		7	9	34	83,6	29,95
	22	☉ L. L.		13	6	13	87	29,99
	24	*α Aquilæ*	E	4	43	48,5	83,7	29,95
		γ Aquilæ		2	56	22,5	83,7	29,96
		β Aquilæ		7	9	47,5	83,7	
	26	*α Aquilæ*	W	4	43	29	81,9	
		γ Aquilæ		2	56	28	81,9	29,97
		β Aquilæ		7	9	19	81,9	
	29	*α Aquilæ*	E	4	43	44,5	82	29,95
		β Aquilæ		7	9	48,5	82	
October	1	*α Aquilæ*		4	43	48	82,8	29,94
		γ Aquilæ		2	56	33	82,8	
		β Aquilæ		7	9	43	82,8	

Colonel Lambton's Zenith Sector was at the Observatory for a short time, during which, Zenith Distances were observed with it, and the *Latitude of the Observatory* deduced from these, as well as from the Meridian Observations with the other Instruments. The Book containing these and other Zenith Distances appears to have been destroyed in the Storm of 1811—the *Results* by the Observations with the Zenith Sector, however, are preserved, as will have appeared in the foregoing Deduction of the Latitude of the Observatory.

Observed ZENITH DISTANCES

TAKEN AT THE

MADRAS OBSERVATORY,

With the ZENITH SECTOR, *when brought a second time to the Observatory.*

1806. Month.		Names.	Face.	Observed Zenith Distances.				Thermometer.	Barometer.
				d.	m.	s.		d.	Inches.
October	24	β *Delphini* . . .	E	0	51	51,13	N	84,75	29,925
	25	α *Pegasi* . . .		1	6	6,13		83,5	29,945
		γ *Pegasi* . . .		1	3	40,87		82,75	29,946
		δ *Arietis* . . .		5	55	0		82,5	29,950
	27	α *Pegasi* . . .	W	1	6	21,63		80	29,940
	28	β *Delphini* . . .		0	52	10,63		82,5	29,938
		ε *Pegasi* . . .		4	3	55,37	S	84,75	
		α *Pegasi* . . .		1	6	23,5	N	83,4	
		γ *Pegasi* . . .		1	3	55,75		83,25	
		β *Arietis* . . .		6	47	50,24		81,9	29,940
		δ *Arietis* . . .		5	55	17		78,6	
		γ *Tauri* . . .		2	5	5		78,3	29,945
		Aldebaran . . .		3	2	56,76		78,3	
	29	β *Delphini* . . .	E	0	51	50,26		84,4	29,918
		ε *Pegasi* . . .		4	4	13,1	S	83,75	
		α *Pegasi* . . .		1	6	6,13	N	83	29,920
		γ *Pegasi* . . .		1	3	40,87		83,15	
		γ *Tauri* . . .		2	4	49,75		78,25	29,925
	30	ε *Pegasi* . . .	W	4	3	55,37	S	83,8	29,910
		α *Pegasi* . . .		1	6	21,88	N	83,25	
		γ *Pegasi* . . .		1	3	57,37		83	29,915
		β *Arietis* . . .		6	47	35,49		80,15	
		δ *Arietis* . . .		5	55	17		79,6	29,920
		γ *Tauri* . . .		2	5	4		79,5	
		Aldebaran . . .		3	2	55,51		79,2	29,925
	31	β *Delphini* . . .		0	52	9,25		81,2	29,936
		ε *Pegasi* . . .	E	4	4	12,9	S	83,75	29,937
		α *Pegasi* . . .		1	6	6,13	N	83	29,938
		γ *Pegasi* . . .		1	3	39,24		80,75	
		δ *Arietis* . . .		5	54	58,5		79,25	29,940
		γ *Tauri* . . .		2	4	47,95		78	
November	1	ε *Pegasi* . . .	W	4	3	57,77	S	84,4	29,965
		α *Pegasi* . . .		1	6	24,88	N	83	
	2	β *Delphini* . . .	E	0	51	51,76		81,5	29,970
	3	ε *Pegasi* . . .		4	4	13,0	S	84	29,978
		α *Pegasi* . . .		1	6	4,13	N	83,5	
		γ *Pegasi* . . .		1	3	40,62		80,75	29,980
		β *Arietis* . . .		6	47	19,47		80	
		δ *Arietis* . . .	W	5	55	16,34		78,75	29,985
		Aldebaran . . .	E	3	2	19,26		78,6	
	4	β *Delphini* . . .	W	0	52	7,25		84,3	29,980
		ε *Pegasi* . . .		4	3	56,12	S	83,4	
		α *Pegasi* . . .		1	6	23,38	N	83	
		γ *Pegasi* . . .		1	3	56,37		80,9	29,982
		β *Arietis* . . .		6	47	37,49		80,2	

1806. Month.		Names.	Face.	Observed Zenith Distances.				Thermometer.	Barometer.
				d.	m.	s.		d.	Inches.
November	4	δ *Arietis*	E	5	55	0	N	79,4	29,982
		γ *Tauri*		2	4	48,5		79,2	29,983
		Aldebaran . . .	W	3	2	35,76		78,5	
	5	β *Delphini* . . .	E	0	51	52,76		84	29,975
		ε *Pegasi*		4	4	14	S	83,5	
		α *Pegasi*		1	6	6,13	N	83,5	29,978
		γ *Pegasi*		1	3	41,37		80,6	
		γ *Tauri*	W	2	5	4,5		76,9	29,980
		Aldebaran . . .	E	3	2	20,26		77,5	
	6	β *Delphini* . . .	W	0	52	6,26		83,8	29,973
		ε *Pegasi*		4	3	58	S	82,25	
		α *Pegasi*		1	6	22,63	N	81,75	29,975
		β *Arietis*	E	6	47	19,37		78,5	
		δ *Arietis*	W	5	55	18,63		77,75	
	7	ε *Pegasi*	E	4	4	14,25		82,1	29,970
		α *Pegasi*		1	6	5,88		80,4	
		β *Arietis*	W	6	47	32,99		76,9	29,975
		δ *Arietis*	E	5	54	58,75		76	
		γ *Tauri*		2	4	50,37		75	29,978
		Aldebaran . . .	W	3	2	34,86		75	
		α *Orionis*	E	5	42	32,76	S	74	29,980
		γ *Geminorum* . . .		3	28	45,37		73,4	
	8	ε *Pegasi*	W	4	3	55,75		80,65	30,005
		α *Pegasi*		1	6	24,75		80	
		γ *Pegasi*		1	3	56		79,8	
		δ *Arietis*		5	55	17		77,25	30,010
		γ *Tauri*		2	3	6		76,4	
		Aldebaran . . .	E	3	2	18,76	N	76,6	29,980
		π *Orionis*		4	30	35,38	S	77	
		α *Orionis*	W	5	42	15,76		75,5	
		γ *Geminorum* . . .		3	29	1,62	N	74,5	29,982
		Procyon	E	7	21	31,38	S	74,3	
		β *Cancri*		3	17	55,37		73,5	
	9	ε *Pegasi*		4	4	14,37		81,7	29,975
		β *Arietis*		6	47	20,49	N	79,75	
		δ *Cancri*	W	5	47	4,36		74	29,978
		Acubene		0	28	14,74	S	74	
	10	ε *Pegasi*		4	3	55,27		81	
		α *Pegasi*	E	1	6	5,93	N	80,65	
		γ *Pegasi*		1	3	42,45		80,7	
		δ *Arietis*		5	55	0		80,2	29,979
		γ *Tauri*		2	4	47,75		80,2	
		π *Orionis*	W	4	30	19	S	78	
		γ *Orionis*	E	6	54	13,5		77,5	
		α *Orionis*		5	42	32,76		74	29,980
		γ *Geminorum* . . .		3	28	44,87	N	76,75	
		β *Canis Min.* . . .		4	24	6	S	76,75	
		Procyon	W	7	21	13,63		75,5	29,982
		β *Cancri*		3	17	40,87		75,5	
		δ *Cancri*	E	5	46	51,41	N	75,5	
		α *Cancri*		0	28	28,12	S	76,25	
	11	β *Arietis*		6	47	23,24	N	80,8	29,980
		δ *Arietis*		5	55	0		80,5	
		γ *Tauri*	W	2	5	4,5		79,75	
		π *Orionis*	E	4	30	34	S	80,5	29,982
		γ *Orionis*	W	6	53	38,87		80,5	
		β *Canis Min.* . . .		4	23	52,97		75,5	29,985
		Procyon	E	7	21	33,13		75,5	
	12	ε *Pegasi*		4	4	14,62		83,5	29,978
		α *Pegasi*	W	1	6	21,68	N	82,8	
		γ *Pegasi*		1	3	42,87		83,25	
		β *Arietis*		6	47	31,74		82,6	
		γ *Tauri*	E	2	4	51,75		80,65	
		Aldebaran . . .	W	3	2	33,09		80,25	
		π *Orionis*		4	30	19,5		80,25	
		α *Orionis*		5	42	17,01	S	79,5	29,980
		γ *Geminorum* . . .		3	29	0,37	N	79,5	
		β *Canis Min.* . . .	E	4	24	5,5	S	75,5	29,982
		Procyon	W	7	21	13,63		78,5	
		β *Cancri*	E	3	17	56,99		79	29,985
		δ *Cancri*	W	5	47	1,74	N	78	
		α *Cancri*		0	28	15,37	S	77,4	

1806. Month.	Names.	Face.	Observed Zenith Distances.	Thermometer.	Barometer.
			d. m. s.	d.	Inches.
November 13	α *Pegasi*	E	1 6 4,13 N	83,5	29,980
	γ *Pegasi*		1 3 42,87	83,25	
	β *Arietis*		6 47 19,74	82,75	
	γ *Tauri*	W	2 5 2,74	83	29,982
	Aldebaran	E	3 2 16,26	81,5	
	π *Orionis*		4 30 38 S	81,25	
	γ *Orionis*		6 54 15,4	82	29,985
	κ *Orionis*		5 42 33,01	81,5	
	γ *Geminorum*		3 28 46,62 N	81,25	
	β *Canis Min.*	W	4 24 52,60 S	80,75	29,987
	Procyon	E	7 21 31,5	79,5	
	β *Cancri*	W	3 17 42,69	80	29,990
	δ *Cancri*	E	5 46 48,71 N	79	
	α *Cancri*		0 28 28,16 S	79,5	
	δ *Arietis*	W	5 55 15 N	83	29,992
14	ε *Pegasi*		4 3 55,87 S	83,65	29,945
	α *Pegasi*		1 6 23,13 N	83	
	γ *Pegasi*		1 3 57,57	82,75	
	δ *Arietis*	E	5 54 58,75	81,75	29,950
	Aldebaran	W	3 2 10,96	81,25	
	π *Orionis*		4 30 22 S	80,75	
	γ *Orionis*		6 53 59,99	80,3	29,952
	β *Canis Min.*	E	4 24 7,22	79,65	
	Procyon	W	7 21 16,65	79,35	29,955
	β *Cancri*	E	3 18 0,07	79,4	
	δ *Cancri*	W	5 47 3,56 N	78,65	29,960
	α *Cancri*		0 28 16,19 S	78,7	
18	ε *Pegasi*	E	4 4 4,32	81,5	30,015
	α *Pegasi*	W	1 6 17,63 N	80,5	
	γ *Pegasi*		1 2 39,49	80,1	
	γ *Tauri*	E	2 5 0	78,1	
	Aldebaran	W	3 2 28,66	78,1	
	π *Orionis*	E	4 30 28,43 S	77,7	30,018
	γ *Orionis (Bellatrix)*	W	6 54 8,87	76	
	γ *Geminorum*		3 28 52,87 N	74,25	
	β *Canis Min.*	E	4 24 0,87 S	73,4	30,020
	Procyon		7 21 23,13	73,5	
	β *Cancri*		3 17 50,34	74,5	
	δ *Cancri*	W	5 46 46,11 N	74	30,022
	α *Cancri*		0 28 28,87 S	74	
	Regulus	E	0 9 51,5	73,75	30,025
19	ε *Pegasi*	W	4 4 7,37	80,25	30,020
	α *Pegasi*	E	1 6 13,63 N	78,5	
	γ *Pegasi*		1 2 40,74	77,5	
	β *Arietis*		6 47 29,36	75,6	30,022
	δ *Arietis*	W	5 55 5,85	74,25	
	Aldebaran	E	3 2 22,76	73	30,025
	π *Orionis*	W	4 30 25,25 S	73,25	
	γ *Orionis (Bellatrix)*	E	6 54 11,87	72,5	
	α *Orionis*		5 42 25,26	73,5	30,028
	γ *Geminorum*		3 28 48,07 N	73,5	
	β *Canis Min.*	W	4 23 56,37 S	73	
	Procyon		7 21 20,13	72,5	30,030
	β *Cancri*		3 17 48,74	72	
	α *Cancri*	E	0 28 25,24	72	
	ο *Leonis*	W	2 18 14,74	71,5	
	α *Leonis (Regulus)*		0 9 49	71,5	
20	α *Pegasi*		1 6 15,13 N	78,5	30,000
	γ *Pegasi*		1 2 41,49	78,8	
	β *Arietis*		6 47 33,64	78,5	
	δ *Arietis*	E	5 55 6	78,5	30,005
	α *Tauri (Aldebaran)*	W	3 2 28,54	77,85	
	π *Orionis*	E	4 30 31,75 S	77,7	
26	α *Pegasi*		1 6 6,13 N	80,75	30,008
	γ *Pegasi*		1 2 41,24	80,75	
	β *Arietis*		6 47 29,24	80,25	30,010
	δ *Arietis*	W	5 55 4,75	80,25	
	γ *Tauri*	E	2 4 57	80,25	29,870
	Aldebaran		3 2 22,26	80,5	
	π *Orionis*	W	4 30 25,5 S	80,5	
	γ *Orionis*		6 54 11,87	80	29,872
	α *Orionis*		5 42 25,26	79,75	

1806. Month.	Names.	Face.	Observed Zenith Distances.				Thermometer.	Barometer.
			d.	m.	s.		d.	Inches.
November 26	γ *Geminorum* . . .	W	3	28	53,62	N	79,25	29,872
	β *Canis Min.* . . .	E	4	24	4,12	S	79,25	29,875
	Procyon . . .		7	21	26,63		79	
	β *Cancri*		3	17	53,87		79	
	δ *Cancri*		5	46	51,88		78	29,880
	α *Cancri*	W	0	28	22,49		78,25	
	ρ *Leonis*	E	2	18	22,87		78	29,882
	Regulus		0	9	56,5		77,75	
27	α *Pegasi*	W	1	6	16,88	N	82,15	29,880
	γ *Pegasi*		1	2	41,17		82	
	β *Arietis*		6	47	33,99		81,5	
	δ *Arietis*	E	5	55	2,13		76,5	29,882
28	γ *Pegasi*		1	2	39,74		79,75	29,885
	β *Arietis*		6	47	27,36		78,5	
	γ *Tauri*		2	4	59,5		77,5	
	Aldebaran . . .	W	3	2	28,39		77,75	29,888
	π *Orionis*	E	4	30	30,5	S	78	
	γ *Orionis (Bellatrix)*		6	54	16,75		77,5	
	α *Orionis*		3	42	29,51		78	29,900
	γ *Geminorum* . . .		3	28	49,87	N	77,8	
	β *Canis Min.* . . .	W	4	23	57,12	S	77,2	
	Procyon		7	21	22,63		77,1	
	β *Cancri*		3	17	49,44		77,1	29,902
	δ *Cancri*		5	46	58,71		77,1	
	α *Cancri*	E	0	28	21,67		76,7	
	ρ *Leonis*	W	2	18	11,47		76,7	
	Regulus . . .		0	9	51,8		76,7	29,905
30	α *Pegasi*		1	6	15,13	N	79,9	29,980
	γ *Pegasi* . . .		1	2	43,24		79,5	
	γ *Tauri* . . .	E	2	5	57		77,5	
	Aldebaran . . .		3	2	22,01		77,5	29,985
	π *Orionis* . . .	W	4	30	27,13	S	78	
	γ *Orionis* . . .		6	54	9,12		78	
	α *Orionis*		5	42	25,26		77	29,975
	γ *Geminorum* . . .		3	28	58,37	N	76,75	
	δ *Cancri*	E	5	46	49,1		75	29,980
	α *Cancri*	W	0	28	20,87	S	74,5	
	ρ *Leonis*	E	2	18	23,87		73,75	29,985
	Regulus		0	9	58		74	
December 1	π *Orionis*		4	30	33,33		78,1	29,980
	α *Orionis*		5	42	32,96		77,8	
	γ *Orionis (Bellatrix)*		6	54	10,77		78,1	
	ρ *Leonis*	W	2	18	14,87		76,25	29,982
	Regulus		0	9	51,5		75,75	
	γ *Pegasi*	E	1	2	36,29	N	78,3	29,985
	β *Arietis*		6	47	23,89		78,2	
	δ *Arietis*	W	5	55	11,8		78,2	29,988
	γ *Tauri*		2	4	58,25		77,9	29,990
	Aldebaran . . .		3	2	31,56		77,75	
2	α *Pegasi*	E	1	6	8,18		78,5	30,015
	γ *Pegasi*	W	1	2	43,82		77,25	
	β *Arietis*		6	47	33,94		77,25	
	δ *Arietis*	E	5	55	5,5		77,25	30,018
	γ *Tauri*		2	4	51		77,25	
	Aldebaran . . .		3	2	20,79		76,5	
	π *Orionis*	W	4	30	29,5	S	76,5	30,020
	γ *Orionis (Bellatrix)*		6	54	4,12		75,75	
	α *Orionis*		5	42	24,26		75,5	
	γ *Geminorum* . . .	E	3	28	48,81	N	74,5	30,022
	β *Canis Min.* . . .		4	24	5,37	S	74,25	
	β *Cancri*		3	17	59,37		73,75	30,025
	δ *Cancri*	W	5	46	53,78	N	73,25	
	α *Cancri*	E	0	28	31,87	S	73,25	
	ρ *Leonis*		2	18	25,12		72,25	30,030
	Regulus		0	9	58,25		75	
3	γ *Pegasi*		1	2	35,66	N	77,65	30,020
	β *Arietis*		6	47	23,99		77,3	
	δ *Arietis*	W	5	55	14,6		77,2	
	γ *Tauri*		2	4	58,35		76,1	30,022
	Aldebaran . . .		3	2	34,39		76,1	
	π *Orionis*	E	4	30	31,03	S	76,4	
	γ *Orionis*		6	54	12,12		75,65	30,025

1806. Month.		Names.	Face.	Observed Zenith Distances.				Thermometer.	Barometer.
				d.	m.	s.		d.	Inches.
December	3	*α Orionis*	E	5	42	33,89	S	75,6	30,025
	4	*α Pegasi*	W	1	6	17,63	N	77,75	30,020
		γ Pegasi		1	2	41,49		76,25	
		β Arietis		6	47	30,61		76,5	
		δ Arietis	E	5	55	2		76,5	30,022
		γ Tauri		2	4	59,25		76,5	
		Aldebaran		3	2	25,49		76,5	
		π Orionis	W	4	30	25,63	S	76,5	30,025
		γ Orionis (Bellatrix)		5	54	6,10		76,25	
		α Orionis		5	42	22,51		75,4	
		γ Geminorum		3	28	49,38	N	74,25	30,030
		β Canis Min.		4	23	57,12	S	74	
		Procyon	E	7	21	27,88		73,75	
		β Cancri	W	3	17	50,14		73	30,032
		δ Cancri	E	5	46	48,51	N	73,5	
		α Cancri	W	0	28	23,12	S	73,5	
		o Leonis		2	18	15,74		72,75	30,035
		Regulus		0	9	51,25		72,75	
	5	*α Pegasi*	E	1	6	7	N	78,25	30,022
		γ Pegasi		1	2	34,86		77,3	
		γ Tauri	W	2	4	57		75,1	
		α Orionis	E	5	2	35,66	S	73,75	30,025
		γ Geminorum		3	28	49,38	N	73,95	
		β Canis Min.		4	24	6,07	S	72,75	
		Procyon	W	7	21	18,85		72,9	30,028
		β Cancri	E	3	17	57,34		72,3	
		o Leonis		2	18	27,87		72,25	30,030
		Regulus		0	9	51,5		72,25	
	6	*α Pegasi*	W	1	6	15,43	N	77,5	30,020
		δ Arietis		5	55	11,75		76	
		γ Tauri	E	2	4	52,50		75,5	
		Aldebaran	W	3	2	32,61		75,5	30,022
		π Orionis	E	4	30	37,38	S	75	
		γ Orionis		6	54	15		74,25	30,025
		α Orionis	W	5	42	25,51		74,25	
	9	*γ Tauri*		2	5	0	N	76	
		Aldebaran	E	3	2	22,24		75,75	
		π Orionis	W	4	30	25,63	S	76	30,028
		γ Orionis		6	54	2,86		76	
		α Orionis	E	5	42	32,26		74,25	
	10	*γ Orionis*		6	54	17,5		78,3	30,030
		γ Geminorum	W	3	28	57,87	N	71,2	
		β Canis Min.		4	23	58,37	S	71	
		β Cancri		3	17	40,62		71	30,032
		α Cancri	E	0	28	31,12		71,35	
		o Leonis	W	2	18	22,22		69,5	
		Regulus		0	9	51,5		69	30,035
		ρ Leonis	E	2	46	32,13		69,75	
		θ Leonis	W	3	24	38,25	N	69	
	11	*α Orionis*		5	42	23,81	S	72	
		γ Geminorum	E	3	28	45,37	N	71,25	
		β Canis Min.		4	24	9,12	S	70,5	30,038
		Procyon		7	21	29,88		70,5	
		β Cancri		3	17	59,04		70,25	30,040
		δ Cancri		5	46	46,33	N	70,75	
		α Cancri	W	0	28	22,47	S	70	
		o Leonis	E	2	18	28,60		70,75	30,042
		Regulus		0	9	58		70	
		θ Leonis		3	24	29,25	N	70	
	12	*γ Orionis*	W	6	54	6,97	S	73,5	30,030
		γ Geminorum		3	28	53,27	N	73,3	
		β Canis Min.		4	24	1,07	S	73,5	
		Procyon		7	21	23,33		73,3	30,032
		β Cancri		3	17	52,27		73,35	
		α Cancri	E	0	28	28,50		72	30,035
		o Leonis	W	2	18	17,87		71,75	
		Regulus		0	9	53,79		71,5	
		α Orionis		5	42	31,26		74,05	30,038
	17	*γ Pegasi*		1	2	45,12	N	76,3	30,005
		β Arietis	E	6	47	23,74		75,15	
		γ Geminorum		3	28	47,12		72,75	
		β Canis Min.		4	24	9,87	S	71,75	30,010

1806. Month.	Names.	Face.	Observed Zenith Distances.				Thermometer.	Barometer.
			d.	m.	s.		d.	Inches.
December 17	*Procyon* . . .	E	7	21	28,75	S	71,75	30,010
	β *Cancri*		3	18	0,62		71,5	
	ζ *Cancri*	W	5	47	0,88	N	71,75	30,012
	α *Cancri*		0	28	25,62	S	71,75	
	ο *Leonis*	E	2	18	28,87		70,5	
	Regulus		0	10	2		70,5	30,015
	ϱ *Leonis*	W	2	46	23,13		69,75	
	θ *Leonis*		3	24	38,87	N	69,5	30,018
	ε *Orionis*	E	5	42	32,27	S	73	
18	π *Orionis*		4	30	37,95		74,25	30,070
	γ *Orionis*	W	6	55	19,17		73,5	
	γ *Geminorum* . . .		3	28	55,07	N	71,5	
	β *Canis Min.* . . .		4	28	58,87	S	71,5	30,072
	Procyon		7	21	20,18		71,5	
	Regulus . . .		0	9	52,5		70,6	30,075
	α *Orionis*		5	42	23,26		73	
	β *Cancri*		3	17	49,44		71,3	
	ζ *Cancri*		5	46	58,18	N	73,75	30,080
	α *Cancri*	E	0	28	28,64	S	71,3	
	ο *Leonis* . . .	W	2	18	17,67		71,2	
19	β *Arietis*		6	47	34,49	N	74,65	30,075
	δ *Arietis*		5	55	11,75		74	
	γ *Tauri*	E	2	4	53,75		74,8	
	π *Orionis*	W	4	30	26		75,5	30,078
	Regulus . . .	E	0	10	3,5	S	73,5	
	ρ *Leonis* . . .		2	46	31,46		73	
	η *Leonis*		3	24	28,87	N	73	30,080
	σ *Leonis*		5	59	14,57	S	72,5	
	β *Leonis*	W	2	34	43,3	N	72	
	ε *Orionis*	E	5	42	35,26	S	73	30,082
	γ *Geminorum* . . .		3	28	44,62	N	74,75	
	β *Cancri* . . .		3	18	1,74	S	74,5	
	δ *Cancri*		5	46	45,51	N	73,75	30,085
	ο *Leonis*		2	18	29,87	S	73,25	
20	β *Arietis*		6	47	21,84	N	75,6	30,090
	δ *Arietis*		5	55	2,5		75,85	
	γ *Tauri*	W	2	5	2,25		75,4	
	Aldebaran . . .		3	2	32,24		75,25	
	γ *Orionis* . . .		6	54	4,2	S	75,25	30,092
	α *Orionis*		5	42	22,76		75	
	γ *Geminorum* . . .		3	28	58,52	N	74,5	30,095
	β *Canis Min.* . . .	E	4	23	53,62	S	74,5	
	Procyon . . .		7	21	20,28		74,8	
	β *Cancri*	W	3	17	48,39		74,5	30,040
	ζ *Cancri*		5	47	1,16	N	74,4	
21	δ *Arietis*		5	55	14,17		75,75	30,085
	γ *Geminorum* . . .	E	3	28	43,87		76,55	
	β *Canis Min.* . . .	W	4	24	4,5	S	77,4	
	β *Cancri*	E	3	17	59,24		73	
	δ *Cancri*		5	46	48,13	N	72,5	30,090
	2 α *Cancri*	W	0	28	26,77	S	72	
	ο *Leonis*		2	18	22,12		70,5	
	Regulus		0	9	54		70,5	30,092
	γ *Leonis*		7	44	19,25	N	70,5	
	κ *Leonis*		4	41	32,13	S	70,25	30,095
	ρ *Leonis* . . .		2	46	25,93		70,5	
	θ *Leonis*		3	24	36,2	N	70,25	30,098
	ε *Leonis*		5	58	59,47	S	70,25	
	β *Leonis* . . .	E	2	34	25,87	N	70,75	30,010
22	γ *Pegasi*	W	1	2	51,87		76,5	30,070
	β *Arietis*		6	47	21,24		76	
	δ *Arietis*	E	5	55	4		75	
	γ *Tauri*		2	4	55,5		75,1	30,072
	Aldebaran . . .		3	2	23,49		75,25	
	π *Orionis*		4	30	22,5	S	75	
	α *Orionis*		5	42	36,51		73,5	30,075
	β *Canis Min.* . . .		4	25	8		76,8	
	Procyon . . .	W	7	21	22,13		71,5	
	β *Cancri*		3	18	53,74		71,5	30,078
	ζ *Cancri*		5	46	57,76	N	71,5	
	2 α *Cancri* . . .	E	0	28	25,87	S	71,5	
	ο *Leonis* . . .		2	18	29,94		71	30,080

1806. Month.		Names.	Face.	Observed Zenith Distances. d.	m.	s.		Thermometer. d.	Barometer. Inches.
December	22	*Regulus*	E	0	10	3,3	S	71	30,080
		γ Leonis		7	44	11,45	N	71	
		κ Leonis		4	41	42,13	S	70,25	
		ρ Leonis		2	46	32,63		70,75	30,082
		θ Leonis		3	24	27,37	N	70,25	
		σ Leonis		5	59	9,12	S	70,25	
		β Leonis	W	2	34	42,5	N	70	
	23	*β Arietis*	E	6	47	25,57		75,5	30,075
		Aldebaran	W	3	2	33,74		75	
		π Orionis		4	30	22,63	S	75	
		γ Orionis	E	6	54	22,87		75,8	30,077
		γ Geminorum	W	3	28	57,87	N	76,5	
		β Canis Min.		4	24	4,12	S	74,25	30,080
		β Cancri	E	3	18	3,74		74,5	
		α Cancri	W	0	28	26,77		72,5	
		ο Leonis		2	18	24,49		72,25	30,082
		Regulus	E	0	10	4		72,5	
		γ Leonis	W	7	44	19	N	72,75	30,085
		κ Leonis		4	41	35,56	S	71,25	
		ρ Leonis		2	46	27,01		71,25	
		θ Leonis		3	24	35,5	N	71,25	30,090
		σ Leonis		5	58	59,5	S	71,25	
		β Leonis	E	2	34	38,5	N	71,25	
	24	*γ Geminorum*		3	28	46,62		76,75	30,070
		Procyon	W	7	21	22,26	S	76	30,072
	27	*γ Geminorum*		3	38	55,37	N	74	30,070
		Procyon	E	7	21	32,88		72,5	
		β Cancri	W	3	17	53,24	S	73	
		δ Cancri	E	5	46	42,76	N	72,5	30,072
		α Cancri		0	28	33,99	S	72,5	
		ο Leonis		2	28	30,74		71,75	
		Regulus	W	0	9	56		72,5	30,075
1807.									
January	1	*γ Arietis*	E	5	16	26,63	N	76,75	30,060
		ξ Tauri		4	43	40,37		76	
		γ Tauri	W	2	5	2,5		75,25	
		Aldebaran	E	3	2	22,24		76	
	2	*γ Arietis*	W	5	16	29,9		75,9	30,048
		δ Arietis		5	55	13		75	
		ξ Tauri		4	43	24,87		75	
		γ Tauri	E	2	4	53,5		75,25	30,050
		Aldebaran	W	3	2	32,49		74,9	
		π Orionis	E	4	30	25,75	S	74,85	
		Procyon		7	21	33,88		71,5	
		γ Leonis		7	44	11,87	N	69,5	30,052
		κ Leonis		4	41	43,33	S	69,5	
		ρ Leonis		2	46	35,63		69,75	
		θ Leonis		3	24	27,75	N	71,25	30,054
		σ Leonis		5	59	10,25	S	69,5	
		β Leonis	W	2	34	38,5	N	68,5	
		β Cancri	E	3	18	3,87	S	70,5	30,055
		δ Cancri	W	5	46	56,13	N	70,25	
		α Cancri		0	28	26,87	S	70,25	
		ο Leonis		2	18	22,49		69,25	30,060
		Regulus		0	9	56		69,5	
	3	*γ Arietis*	E	5	16	25,53	N	77,5	30,030
		δ Arietis		5	55	2,5		76,45	
		γ Tauri	W	2	5	2,75		75,9	30,035
		Aldebaran	E	3	2	25,24		76,3	
		π Orionis	W	4	30	22,5	S	76,4	30,040
	5	*γ Arietis*		5	16	27,13	N	77,5	30,125
		δ Arietis		5	55	10,25		76,5	
		γ Tauri	E	2	4	52		76,7	
		Aldebaran	W	3	2	31,01		75,6	30,128
		π Orionis	E	4	30	21	S	76	
		γ Orionis	W	6	54	10,5		76	30,130
		κ Orionis		5	42	22,76		76	
		γ Leonis		7	44	18,87	N	75,5	
		κ Leonis		4	41	31,13	S	75,25	30,132
		ρ Leonis		2	46	27,13		75,25	
		σ Leonis		5	59	1		75,5	
		β Leonis	E	2	34	31,2	N	75	30,135

1807. Month.		Names.	Face.	Observed Zenith Distances.				Thermometer.	Barometer.
				d.	m.	s.		d.	Inches.
January	5	δ *Cancri*	E	5	46	43,88	N	76,5	30,135
		2 κ *Cancri*		0	28	34,12	S	76	
		o *Leonis*		2	18	31,37		75,5	30,140
		Regulus		0	10	4,25		75,5	
	6	γ *Arietis*		5	16	27,13	N	77,6	30,130
		Aldebaran		3	2	25,24		76,25	
		π *Orionis*	W	4	30	23	S	76,5	30,132
		δ *Arietis*	E	5	55	4	N	76,75	
		γ *Tauri*	W	2	5	2,5		76,5	30,135
		ξ *Tauri*	E	4	43	38,37		75,6	
	8	γ *Arietis*	W	5	16	26,38		77	30,105
		Aldebaran		3	2	25,74		77	
		π *Orionis*	E	4	30	28,25	S	77,25	30,108
		γ *Orionis*		6	54	22,5		77	
		α *Orionis*		5	42	34,76		76,4	30,110
		γ *Leonis*		7	44	11	N	76	
		α *Leonis*		4	41	41,76	S	76	30,112
		β *Leonis*		2	46	25,13		76	
		θ *Leonis*	W	3	24	35,3	N	76,1	30,115
		σ *Leonis*	E	5	59	0	S	76,1	
		β *Leonis*	W	2	34	37,62	N	75,5	
		β *Cancri*		3	18	0,74	S	77	
		δ *Cancri*		5	46	58,01	N	77	
		2 κ *Cancri*		0	28	28,37	S	77	30,120
		o *Leonis*		2	18	26,12		75,75	
		Regulus		0	9	57		76	
		δ *Arietis*		5	55	13,5	N	76,75	30,125
		γ *Tauri*		2	4	51,5		76,75	
	9	γ *Orionis*		6	54	10,74	S	76,4	30,105
		α *Orionis*		5	42	21,26		76,05	
		γ *Leonis*		7	44	17,5	N	72,5	
		θ *Leonis*	E	3	24	26,92		72,15	30,108
		α *Leonis*	W	6	59	2,07	S	72	
		β *Leonis*	E	2	34	30,77	N	72	
		Regulus		0	10	5	S	72,5	30,110
		δ *Arietis*		5	55	1,25	N	72,6	
		γ *Tauri*	W	2	5	1,75		72,1	
		Aldebaran		3	2	20,26		76,5	30,115
		γ *Arietis*		5	16	22,25		79	
		π *Orionis*		4	30	25,13	S	76,5	
		β *Canis Min.*		4	21	3,87		78,75	
	10	ξ *Tauri*		4	43	21,87		76,65	30,140
		α *Orionis*	E	6	54	19		76,5	
		Procyon		7	21	34,13		75,5	
		2 α *Cancri*		0	28	35,37		75,75	30,142
		Regulus		0	10	4,38		75,5	
		δ *Arietis*	W	5	55	11,75		76,2	
		Aldebaran		3	2	34,49		77,15	30,145
		γ *Leonis*	E	7	44	8,87		74,25	
		β *Leonis*	W	2	34	57,07		73,4	
		π *Orionis*	E	4	30	28,25		76,25	30,150
		β *Canis Min.*		4	24	4,37		77,5	
	11	γ *Leonis*	W	7	44	15,7		74,25	30,135
		α *Leonis*		4	41	35,18		74,25	
		θ *Leonis*		3	24	33,67		74,25	
		σ *Leonis*	E	6	59	10,5		74,25	30,140
	12	μ *Ceti*		3	46	33,13		77,65	30,095
		ξ *Tauri*		4	43	39,4		77,4	
		π *Orionis*		5	42	37,76		76,05	30,100
		Procyon	W	7	21	25,13		76,5	
		δ *Cancri*	E	5	46	44,13	N	76,75	
		2 α *Cancri*		0	28	30,37	S	76	30,102
		o *Leonis*		2	18	27,12		75,75	
		Regulus		0	9	55		75,5	
		γ *Tauri*		2	4	57,94	N	78	30,105
		Aldebaran		3	2	20,61		77,5	
		γ *Leonis*		7	44	11,87		76,75	
		π *Orionis*		4	41	47,13	S	73,5	30,110
		θ *Leonis*		3	24	27,13	N	73,5	
		β *Leonis*		2	34	31,05		73,4	
		ε *Virginis*		1	4	28	S	72,75	30,115
		π *Orionis*	W	4	30	24,63		77,05	

1807. Month.		Names.	Face.	Observed Zenith Distances. d. m. s.	Thermometer. d.	Barometer. Inches.
January	13	ξ *Tauri*	W	4 43 23,87 N	77,5	30,140
		γ *Orionis*		6 54 12 S	77,5	
		α *Orionis*		5 42 25,26	76,9	
		δ *Arietis*	E	5 55 2,5 N	77,6	30,142
		γ *Tauri*	W	2 5 2	77,5	
		Aldebaran		3 2 34,74	77,5	
		θ *Leonis*		3 24 32,67	72,25	30,145
		σ *Leonis*		6 59 8,77 S	72,25	
		β *Leonis*		2 34 37,5 N	71,75	
		ε *Virginis*		1 4 22,87 S	71,75	30,150
		γ *Arietis*	E	5 16 23,13 N	78,05	
	14	μ. *Ceti*	W	3 46 22,63 S	76,9	30,065
		α *Orionis*	E	5 42 39,36	73,5	
		Procyon		7 21 34,13	74,5	
		β *Cancri*	W	3 18 7,13	74,75	30,070
		γ *Orionis*	E	6 54 19,5	75,75	
		δ *Arietis*	W	5 55 13 N	76,9	30,072
		ξ *Tauri*	E	4 43 40,37	76,9	
		γ *Tauri*		2 4 49,87	77,5	
		Aldebaran		3 2 20,74	75,15	30,075
		θ *Leonis*		3 24 24	72,5	
		β *Leonis*		2 34 32,3	72,25	
		ε *Virginis*		1 4 28,3 S	71	30,080
		γ *Arietis*	W	5 16 21,13 N	77,65	
		ο *Orionis*		6 50 49,38	76,4	
	15	α *Orionis*		5 42 24,76 S	75,6	30,065
		γ *Orionis*		6 54 10,87	75,2	
		δ *Arietis*	E	5 55 1,5 N	77	
		γ *Tauri*	W	2 5 1,75	76,6	
		Aldebaran		3 2 24,74	75,75	
		γ *Arietis*	E	5 16 24,76	77,45	
	16	μ. *Ceti*		3 46 33,13 S	77,35	30,070
		α *Orionis*		5 42 38,26	73,15	
		ξ *Tauri*	W	4 43 21,37 N	76,3	
		γ *Tauri*	E	2 4 48	76,75	30,072
		β *Leonis*	W	2 34 38,87	68,75	
		ε *Virginis*		1 4 20,87 S	68,75	
		δ *Arietis*		5 55 12 N	76,85	30,075
		Aldebaran	E	3 2 20,24	75,85	
		β *Canis Min.*	W	4 24 3,87 S	77,5	
	17	μ. *Ceti*		3 46 18,38	77,1	30,155
		γ *Orionis*	E	6 54 22	75,5	
		α *Orionis*	W	5 42 22,26	75,35	
		θ *Leonis*		3 24 34 N	70,5	30,160
		σ *Leonis*	E	5 59 11,37 S	70,5	
		β *Leonis*		2 34 34 N	70,5	
		ε *Virginis*		1 4 29,62 S	68,75	30,162
		ο *Orionis*		0 50 57,5 N	76,1	
		δ *Arietis*		5 55 9	76,76	
		γ *Tauri*	W	2 5 3,5	76,25	30,165
		Aldebaran		3 2 36,74	76,1	
	19	γ *Orionis*		6 54 15,75 S	77,5	29,830
		α *Orionis*	E	5 42 35,26	77,65	
		β *Leonis*	W	2 34 38,75	75,5	29,835
		ε *Virginis*		1 4 22,87	75,5	
		ο *Orionis*		0 50 52,38 N	78	29,840
		μ. *Ceti*	E	3 46 28,68 S	78	
		δ *Arietis*	W	5 55 11,63 N	77,65	29,845
		γ *Tauri*	E	2 4 55,5	77,75	
		Aldebaran		3 2 23,24	78	29,850
	20	γ *Orionis*		6 54 21,12 S	76,6	30,010
		ξ *Tauri*		4 43 38,87 N	77,35	
		α *Orionis*	W	5 42 20,74 S	76,75	
		ε *Virginis*	E	1 4 29,25	69,25	30,015
		ο *Orionis*		0 50 59,63 N	76,9	
		δ *Arietis*		5 55 5,5	77,65	
		γ *Tauri*	W	2 5 4,5	77,1	30,020
		Aldebaran		3 2 25,24	76,9	
	21	γ *Orionis*		6 54 21,12 S	76,4	30,130
		ξ *Tauri*		4 43 20,74 N	77,65	
		α *Orionis*	E	5 2 36,76 S	77,05	
		σ *Leonis*	W	6 59 6,42	72	

1807. Month.		Names.	Face.	Observed Zenith Distances. d.	m.	s.		Thermometer. d.	Barometer. Inches.
January	21	β *Leonis*	E	2	34	32	N	71,25	30,132
		ε *Virginis*	W	1	4	25,37	S	71,25	
		l ο *Orionis*		0	51	26,13	N	76,9	
		μ *Ceti*		3	46	19,63	S	77,4	30,135
		δ *Arietis*		5	55	10	N	76,65	30,140
		γ *Tauri*	E	2	4	54		76,5	
		Aldebaran		3	2	19,61		76,6	
	22	μ *Ceti*		2	46	29,38	S	77,5	30,042
		Procyon	W	7	21	24,63		76,5	
		ξ *Tauri*	E	4	43	37,87	N	77	
		α *Orionis*	W	5	42	23,26	S	77,15	30,045
		l ο *Orionis*	E	0	50	59,88	N	77,5	
		δ *Arietis*		5	55	6		77,5	
		γ *Tauri*	W	2	5	6		77,25	30,050
		Aldebaran		3	2	33,74		77	
	23	μ *Ceti*		3	46	20,63	S	78,6	30,120
		γ *Orionis*		6	54	18,62		76	
		β *Leonis*		2	34	37,57	N	75,5	30,122
		l ο *Orionis*		0	51	24,13		77,5	
		δ *Arietis*		5	55	10,5		78,5	30,125
		γ *Tauri*	E	2	4	52,25		77,5	
		Aldebaran		3	2	23,74		77,5	30,130
	24	μ *Ceti*		3	46	28,13	S	78	30,125
		γ *Orionis*	W	6	54	15,87		76,75	
		α *Orionis*	E	5	42	34,26		76,75	
		l ο *Orionis*		0	50	57,63	N	77	30,130
		δ *Arietis*		5	55	3		77,5	
		γ *Tauri*	W	2	5	5		77,25	
		Aldebaran		3	2	51,74		77,5	30,132
	26	α *Orionis*		5	42	30,51	S	78,25	30,043
		σ *Leonis*		6	59	7,75		73,75	
		β *Leonis*	E	2	34	32,8	N	73,75	
		ε *Virginis*		1	4	29,5	S	75	30,045
	27	δ *Arietis*	W	5	55	12,5	N	78,25	30,051
	28	μ *Ceti*		3	46	21,26	S	79,05	30,050
		β *Leonis*		2	34	36,75	N	78,75	
	29	β *Leonis*	E	2	34	32,17		75,5	30,100
		ε *Virginis*	W	1	4	22,68	S	75	30,105
	30	α *Orionis*		5	42	27,76		77,75	30,105
		γ *Tauri*	E	2	4	50,87	N	78,25	
		Aldebaran		3	2	23,24		78,1	30,240
February	6	α *Orionis*		5	42	38,26	S	78,85	30,148
		γ *Geminorum*		3	28	43,47	N	79,35	
		Aldebaran	W	3	2	30,74		79,35	
		Bellatrix	E	6	54	18,5	S	78,5	30,150
		Procyon		7	21	24,26		79	
		β *Leonis*	W	2	34	34,5	N	77,75	30,152
		7 *Bootis*	E	6	17	35,74		78	
		Arcturus		7	6	54,63		77,75	30,155
	7	α *Orionis*	W	5	42	28,01	S	79,25	30,140
		γ *Geminorum*		3	28	57,87	N	79,25	
		Bellatrix		6	54	17,63	S	80,25	
		ο *Orionis*		0	51	0,13	N	80,15	30,145
		7 *Bootis*		6	17	44,24		77,35	
		Arcturus		7	7	0,01		77,5	29,990
	8	ε *Virginis*		1	4	23,37	S	76	
		7 *Bootis*	E	6	17	36,04	N	75,25	29,995
		Arcturus		7	6	54,96		75,25	
	9	ε *Virginis*		1	4	33,87	S	73,75	29,947
		7 *Bootis*	W	6	17	45,49	N	73,5	29,950
		Arcturus		7	6	58,51		72,75	29,955
	10	*Bellatrix*	E	6	54	21,87	S	78	30,171
	12	*Aldebaran*		3	2	29,34	N	79,25	30,145
		ο *Orionis*		0	50	54,13		79,4	
		β *Leonis*	W	2	34	35		74,75	
		7 *Bootis*	E	6	17	25,04		75	30,150
		Arcturus		7	6	52,5		74,9	
	16	γ *Geminorum*		3	28	44,62		79,5	29,917
		Bellatrix		6	54	22	S	79,75	29,920
	18	ε *Virginis*	W	1	4	25		77,5	29,925
	19	2 ο *Orionis*	E	0	7	41,99	N	80,75	29,914
		λ *Orionis*	W	3	16	28,13	S	80,5	29,920

1807. Month.	Names.	Face.	Observed Zenith Distances.	Thermometer.	Barometer.
			d. m. s.	d.	Inches.
February 19	μ *Orionis*	E	3 26 4,13 S	80,5	29,990
	15 *Unicorn*	W	3 0 23,13	79,5	29,925
	ζ *Geminorum*	E	7 46 3,13 N	79,5	29,930
	β *Canis Min.*	W	4 24 10,07 S	79,5	
	Procyon		7 21 30,20	79,5	29,935
20	2 o *Orionis*		0 7 45,87 N	80	29,940
	λ *Orionis*	E	3 16 31,38 S	79,75	
	μ *Orionis*	W	3 25 52,98	79,5	29,945
	15 *Unicorn*	E	3 0 26	79,75	
	β *Canis Min.*		4 25 9,68	79,75	29,950
	Procyon		7 21 34,88	79,75	30,020
25	2 o *Orionis*		0 7 44,49 N	81,1	
	λ *Orionis*	W	3 15 30,25 S	80,4	30,025
	μ *Orionis*	E	3 26 4,13	80	
	15 *Unicorn*	W	3 0 20,63	78,75	30,030
	ζ *Geminorum*		7 46 7,63 N	78,5	
	Procyon		7 21 31,13 S	77,75	30,140
24	β *Leonis*	E	2 34 35 N	74,25	
	ε *Virginis*		1 4 32,5 S	72,5	30,142
	7 *Bootis*	W	6 17 38,54 N	72,25	
	Arcturus		7 6 57,26	72,25	30,145
	2 o *Orionis*		0 7 42,87	80,4	
	λ *Orionis*	E	3 16 34,26 S	80,9	30,150
	μ *Orionis*	W	3 25 56,38	79,75	
	15 *Unicorn*	E	3 0 28,75	78,75	30,152
	ζ *Geminorum*		7 46 2,88 N	78,5	
	β *Canis Min.*	W	4 24 8,87 S	78,75	30,155
	Procyon	E	7 21 35,13	78	
25	ε *Virginis*	W	1 4 25,87	74,5	30,150
	7 *Bootis*	E	6 17 33,54 N	73,5	
	Arcturus		7 6 52,26	73	30,152
26	ε *Virginis*	W	1 4 23,10 S	73,25	29,935
	7 *Bootis*		6 17 37,94 N	72,75	29,940
	Arcturus		7 6 58,66	72,75	
	2 o *Orionis*		0 7 41,24	80,5	29,942
	λ *Orionis*		3 16 24,38 S	79,5	
	μ *Orionis*	E	3 26 8,38	79,5	29,945
	15 *Unicorn*	W	3 0 21,5	79,25	
	Procyon		7 21 30,88	78,5	29,950
28	7 *Bootis*	E	6 17 35,61 N	75,25	29,945
	Arcturus		7 6 51,43	75,25	29,950
	λ *Orionis*		3 16 36,38 S	80	
	μ *Orionis*	W	3 25 55,88	79,75	29,952
	15 *Unicorn*	E	3 0 28	79,5	29,955
	ζ *Geminorum*		7 46 0,13 N	78,5	29,960
	β *Canis Min.*		4 24 9,62 S	78,5	
	Procyon		7 21 31,76	78,5	29,962
March 2	*Arcturus*	W	7 6 50,23 N	76,25	29,934
	π *Bootis*	E	4 10 34,43	76,5	
	ε *Virginis*		1 4 32,9 S	77,75	29,940
	λ *Orionis*	W	3 16 28,13	81,5	
	μ *Orionis*	E	3 26 5,13	81	29,945
	15 *Unicorn*	W	3 0 21,13	80,5	
	ζ *Geminorum*		7 46 7,13 N	80,5	29,950
	β *Canis Min.*		4 24 9,87 S	80,5	
	Procyon		7 21 32,76	80,5	29,955
4	ε *Virginis*		1 4 25,5	79,75	30,030
	7 *Bootis*		6 17 38,74 N	79,75	
	Arcturus	E	7 6 51,13	79,75	30,032
	π *Bootis*	W	4 10 40,7	79,75	
	ζ *Bootis*		6 49 56	79,75	30,025
	λ *Orionis*	E	3 15 36,38 S	81,5	
	μ *Orionis*	W	3 25 57,88	82,5	30,040
	ζ *Geminorum*	E	7 46 0,38 N	81,75	
	β *Canis Min.*		4 25 13 S	81,5	30,042
	Procyon		7 21 31,38	81,25	
5	7 *Bootis*		6 17 35,24 N	80	29,980
	Arcturus	W	7 7 0,01	80	
	π *Bootis*	E	4 10 36,77	80,25	29,982
	ξ *Bootis*		6 49 49,25	80,25	
7	λ *Orionis*		3 16 28,13 S	82,5	29,960
	μ *Orionis*		3 26 6,38	82,5	

1807. Month.		Names.	Face.	Observed Zenith Distances. d.	m.	s.		Thermometer. d.	Barometer. Inches.
March	7	15 *Unicorn*	W	3	0	19,95	S	82,5	29,962
		β *Canis Min.*		4	24	9,12		81,5	
		Procyon		7	21	33,13		81,5	29,964
	10	π *Bootis*		4	10	40,7	N	79,75	29,945
		ξ *Bootis*		6	49	54,6		74,75	
		δ *Serpentis*	E	1	52	51,09	S	74,5	29,950
		α *Serpentis*		6	1	48,53		74,5	
		ζ *Geminorum*	W	7	46	7,38	N	80,5	29,952
		γ *Herculis*		6	32	24,26		74,5	
	11	25 e *Ophiuchi*	E	2	34	45,87	S	75,75	30,059
		Arcturus		7	7	59,26	N	75,5	
		π *Bootis*	W	4	10	38,13		75,5	30,060
		ξ *Bootis*	E	6	49	53,37		75	
		δ *Serpentis*	W	1	52	45,76	S	75	30,062
		α *Serpentis*		6	1	42,63		75	
		15 *Unicorn*		3	0	23,75		81,5	30,065
		ζ *Geminorum*	E	7	46	0,5	N	80,5	
		γ *Serpentis*		3	13	33,87		75	
	12	β *Canis Min.*		4	24	13,87	S	75	30,099
		Procyon		7	21	38,38		80,5	
		ε *Cancri*	W	3	17	58,62		79,5	30,100
		δ *Cancri*		5	46	56,13	N	79,5	
		Arcturus	E	7	6	51,33		79,75	30,102
		π *Bootis*		4	10	35		79,5	
		ξ *Bootis*	W	6	49	54,5		79	30,105
		δ *Serpentis*	E	1	52	49,51	S	73,5	
		α *Serpentis*		6	1	47,26		72,5	30,108
		15 *Unicorn*		3	0	29,75		81,5	
		ζ *Geminorum*	W	7	46	6,86	N	80,5	
		γ *Serpentis*		3	13	33,86		80,5	30,110
		γ *Herculis*	E	6	32	26,26		72,5	
	14	β *Canis Min.*	W	4	24	10,62	S	80,5	30,021
		Procyon		7	21	31,83		80	
		ε *Cancri*	E	3	18	2,12		79,5	30,025
		δ *Cancri*		5	46	45,76	N	80,5	
		2 α *Cancri*		0	28	26,87	S	80,5	30,030
		ζ *Geminorum*		7	46	0,33	N	81,5	
	15	α *Ophiuchi*	W	0	21	34,13	S	84,5	30,009
	16	*Arcturus*		7	6	58,46	N	79,25	30,031
		π *Bootis*		4	10	37,63		78,75	
		ξ *Bootis*	E	6	49	52,7		79,25	30,035
		α *Serpentis*	W	6	1	43,63	S	78,75	
	18	β *Canis Min.*	E	4	24	15,55		80,5	30,049
		Procyon		7	21	48,63		79,75	30,050
		ζ *Geminorum*	W	7	46	5,43	N	81	30,052
		γ *Serpentis*		3	13	32,87		72,5	
		25 e *Ophiuchi*	E	2	34	47,5	S	72,5	30,055
	20	*Procyon*	W	7	21	29,28		74,75	30,043
		ε *Cancri*		3	18	1,62		81,5	
		δ *Cancri*	E	5	46	45,13	N	79,5	30,045
		2 α *Cancri*	W	0	28	27,37	S	80,25	
		Arcturus	E	7	6	54,26	N	80,25	30,050
		π *Bootis*		4	10	33,63		79,75	
		α *Serpentis*		6	1	48,36	S	79,75	
		15 *Unicorn*	W	3	0	22,25		83	30,052
		ζ *Geminorum*	E	7	46	0,38	N	82,5	
	23	β *Canis Min.*		4	24	15,47	S	82,5	29,964
		ε *Cancri*	W	3	18	0,59		81,5	
		δ *Cancri*		5	46	55,38	N	79,5	29,966
		2 α *Cancri*	E	0	28	34,17	S	80,25	29,968
		ζ *Geminorum*	W	7	46	5,69	N	82,5	29,970
	26	β *Canis Min.*		4	24	10,37	S	82,5	29,976
		Procyon		7	21	32,88		82,5	
		2 α *Cancri*		0	28	29,63		80,5	29,980
		ξ *Bootis*		6	49	56	N	80,5	
		α *Serpentis*		6	1	42,26	S	79,75	
		ζ *Geminorum*	E	7	46	1,88	N	83,75	29,982
		γ *Serpentis*	W	3	13	34,87		80	
		γ *Herculis*		6	32	24,26		79,5	
		25 e *Ophiuchi*		2	34	41,8	S	79,5	29,985
	27	ξ *Bootis*	E	6	49	56	N	80,5	29,970
		δ *Serpentis*		1	52	51,89	S	80	

1807. Month.		Names.	Face.	Observed Zenith Distances.				Thermometer.	Barometer.
				d.	m.	s.		d.	Inches.
March	27	*α Serpentis* . . .	E	6	1	46,26	S	78	29,972
		γ Herculis		6	32	21,26	N	77,5	
		25 e Ophiuchi . . .		2	34	44,12	S	77	
		α Herculis	W	1	32	50,94	N	77	29,975
	28	*δ Serpentis* . . .	E	1	52	51,96	S	77,5	29,950
		α Serpentis . . .	W	6	1	40.26		77,5	
		γ Serpentis . . .		3	13	36.87	N	77,5	29,952
		γ Herculis . . .		6	32	22,56		76,5	
		25 e Ophiuchi . . .		2	34	43,6	S	76	29,955
		α Herculis	E	1	32	49,84	N	75,75	29,960
	30	*β Canis Min.* . . .		4	24	15	S	82,5	29,900
		Procyon		7	21	34,26		82	29,905
		β Cancri		3	18	1,87		81,5	
		δ Cancri	W	5	45	54,13	N	80,5	
		2 α Cancri	E	0	28	37,87	S	80,5	29,910
		ζ Geminorum . . .	W	7	46	9,63	N	84,5	
April	2	*α Cancri*	E	0	28	38,87		82,5	29,950
		δ Serpentis . . .	W	1	52	47,56		80,75	
		γ Serpentis . . .		3	13	38.87		80,75	29,955
		γ Herculis		6	32	20,26		80,5	29,960
		25 e Ophiuchi . . .		2	34	40,87	S	81	29,962
		α Herculis	E	1	32	47,64	N	81	
	4	*β Cancri*	W	3	17	58,24	S	83,5	30,060
		δ Cancri		5	46	55,63	N	83,5	
		α Cancri		0	28	29,74	S	82,5	30,062
		δ Serpentis . . .	E	1	52	53,26		82,5	
		α Serpentis . . .		6	1	50,68		82,5	30,065
		γ Serpentis . . .		3	13	34,67	N	82,5	
		γ Herculis . . .	W	6	32	20,26		82,5	30,070
		25 e Ophiuchi . . .		2	34	42,4	S	82,5	
	6	*Procyon*		7	21	39,13		85	29,950
		β Cancri	E	3	18	5,57		83,5	
		α Cancri		0	28	40,42		83,5	29,952
		δ Serpentis . . .	W	1	52	46,99		84,25	29,955
		α Serpentis . . .		6	1	42,13		84,25	29,960
		γ Herculis . . .	E	6	32	24,76	N	84,5	
		25 e Ophiuchi . . .		2	34	43,5	S	84,5	29,962
		α Ophiuchi . . .		0	21	42,56		84	
	7	*γ Herculis* . . .	W	6	32	19,26	N	84,25	29,945
		25 e Ophiuchi . . .		2	34	42,8	S	84,5	
		α Herculis		1	32	51,07	N	74	
		α Ophiuchi		0	21	38,13	S	74,5	29,950
	9	*α Serpentis* . . .	E	6	1	48,48		84	
		γ Herculis . . .		6	32	26,96	N	83,75	29,952
		h Herculis . . .		1	9	38,2		74,5	
		25 e Ophiuchi . . .		2	34	43,4		83,5	29,955
		α Herculis		1	32	49,04		83,25	
		α Ophiuchi		0	21	44,26	S	83,25	
	10	*α Cancri*		0	43	6,26		85,5	29,960
		δ Cancri	W	5	46	47,53	N	85,5	
		α Cancri		1	38	0,01	S	86	29,965
		γ Herculis . . .		6	32	24,96		86	
	13	*α Cancri*		0	42	49,39		85,8	29,890
		δ Cancri	E	5	46	47,53	N	85,9	29,892
		α Herculis		1	32	49,04		82,25	29,895
		α Ophiuchi		0	21	44,33	S	82,5	
	14	*α Cancri*		0	43	6,14		87	29,950
		δ Cancri	W	5	46	59,26	N	87	
		α Cancri		1	38	9,14	S	86,5	29,955
	15	*α Cancri*		0	42	53,26		85,5	29,960
		δ Cancri	E	5	46	43,51	N	85,5	
		α Cancri	W	1	37	59,01	S	85,5	
		γ Herculis . . .		6	32	26,06	N	84,5	29,962
		25 e Ophiuchi . . .		2	34	38,87	S	84,5	
		α Herculis		1	32	59,34	N	84,5	29,965
		α Ophiuchi		0	21	34,13	S	84,5	
	16	*γ Herculis* . . .	E	6	32	18,26	N	82,25	29,945
		25 e Ophiuchi . . .		2	34	46,5	S	82,25	
		α Ophiuchi		0	21	44,51		82,75	29,950
	17	*α Cancri*		0	43	4,49		86,5	
		δ Cancri		5	46	42,26	N	86,5	29,952
		α Cancri		1	38	11,14	S	86	

1807. Month.		Names.	Face.	Observed Zenith Distances.				Thermometer.	Barometer.
				d.	m.	s.		d.	Inches.
April	17	γ *Herculis* . . .	W	6	32	32,16	N	83	29,952
		25 *e Ophiuchi* . . .		2	34	36,87	S	83	29,955
		a Herculis . . .		1	32	55,94	N	83	29,960
		a Ophiuchi . . .		0	21	35,33	S	83,5	
	18	25 *e Ophiuchi* . . .	E	2	34	49,5		83,5	29,945
		a Herculis . . .		1	32	46,04	N	83,5	
		a Ophiuchi . . .		0	21	47,83	S	83,5	29,950
	20	δ *Cancri*	W	5	46	52,51	N	86,5	30,000
		μ *Cancri*		1	38	0,39	S	86,5	
		γ *Herculis* . . .	E	6	32	13,38	N	83,75	30,005
		25 *e Ophiuchi* . . .	W	2	34	34,67	S	83	
		a Herculis . . .		1	32	58,57	N	82,5	30,010
		a Ophiuchi . . .		0	21	33,13	S	82,5	
	21	*a Cancri*	E	0	43	7,39		86,5	29,955
		δ *Cancri*		5	46	41,26	N	86	
		μ *Cancri*		1	38	13,76	S	86,5	29,960
		ϑ *Leonis* . . .		4	37	26,24	N	86,5	
		i Ophiuchi . . .		2	34	48,17	S	84,5	29,962
		e Herculis . . .		1	32	44,74	N	84,5	
		e Ophiuchi . . .		0	21	46,56	S	84,5	
	22	δ *Cancri*	W	5	46	59,88	N	86,5	29,945
		1 *e Cancri* . . .		0	42	55,76	S	87	
		μ *Cancri*		1	37	56,76		86,5	29,950
		i Ophiuchi . . .		2	34	34,5		84	
		a Herculis . . .		1	32	56,0	N	84	29,952
		a Ophiuchi . . .		0	21	32,26	S	84	
	23	ξ *Leonis*	E	0	55	37,13		86,5	29,955
		γ *Leonis*	W	0	17	23,61	N	85,5	29,945
		ϑ *Leonis*		4	37	34,49		85,5	
		δ *Cancri*	E	5	46	41,38		86,4	29,950
		1 *a Cancri*		0	43	7,26	S	86,5	
		a Ophiuchi . . .		0	21	46,76		84,5	29,955
	24	γ *Herculis* . . .	W	6	32	31,86	N	84,25	29,955
		i Ophiuchi	E	2	34	49	S	84	
		a Herculis		1	32	44,04	N	84	29,910
		a Ophiuchi . . .	W	0	41	32,53	S	84	
	25	*a Herculis* . . .		1	32	58,74	N	84,5	29,915
		a Ophiuchi . . .	E	0	21	48,13	S	84,5	29,950
	27	α *Aquilæ*	W	4	41	51,06		84,5	29,935
		β *Aquilæ*		7	7	51,87		84,75	29,940
	28	ξ *Aquilæ*	E	0	30	49,63	N	84,25	29,945
		β *Aquilæ*		7	8	5,71	S	84	29,950
	29	δ *Cancri*	W	5	46	52,76	N	86,5	29,905
		1 *a Cancri*		0	42	55,64	S	86	
		ξ *Aquilæ*		0	31	2,13	N	80,75	29,910
		β *Aquilæ*		7	7	54,24	S	81	
	30	ξ *Aquilæ*	E	0	30	48,9	N	82,75	29,925
May	1	γ *Leonis*	W	0	17	21,49		86,5	
		ϑ *Leonis*	E	4	37	22,99		85,4	29,930
		μ *Cancri*	W	1	38	0,14	S	85,6	
		α *Sagittæ*	E	4	30	17	N	83,25	29,935
		γ *Aquilæ*		2	53	5,8	S	83,25	
		γ *Sagittæ*		5	54	7,57	N	83,25	29,910
	2	ξ *Leonis*		0	55	39,5	S	86,5	29,890
		γ *Leonis*		0	17	7,61	N	86,5	29,895
		ϑ *Leonis*	W	4	37	31,24		86,5	
		δ *Cancri*	E	0	37	6,59	S	86,5	29,900
		ξ *Aquilæ*	W	0	31	0,13	N	83	
		ζ *Aquilæ*	E	6	5	25,3	S	81,5	29,905
		α *Sagittæ*	W	4	30	27,5	N	83,5	29,910
		γ *Aquilæ*		2	54	55	S	83,5	
		β *Aquilæ*		7	7	53,87		83,5	29,915
		γ *Sagittæ*		5	54	23,2	N	83,5	
	4	ξ *Aquilæ*		6	5	13	S	81,5	29,700
		α *Sagittæ*	E	4	30	20,5	N	84,5	29,705
		β *Aquilæ*		7	8	5,94	S	85	29,710
		γ *Sagittæ*		5	54	9,87	N	85,5	
	5	ξ *Leonis*	W	0	55	26,75	S	88,5	29,715
		γ *Leonis*		0	17	18,74	N	88,5	
		ζ *Aquilæ*		6	5	23,2		85,5	29,720
		α *Sagittæ*		4	30	28,2		85,5	
		β *Aquilæ*		7	7	52,74	S	85,5	29,725

1807. Month.		Names.	Face.	Observed Zenith Distances.				Thermometer.	Barometer.
				d.	m.	s.		d.	Inches.
May	5	γ *Sagittæ*	W	5	54	23,37	N	85,5	29,730
		3 *Leonis*	E	4	37	24,11		88,4	
	6	ξ *Aquilæ*	W	6	5	11,13		85,5	29,968
		α *Sagittæ*	E	4	30	17,2		85,5	
		γ *Aquilæ*		2	55	4	S	85,5	29,970
		β *Aquilæ*		7	8	6,77		85,5	
		γ *Sagittæ*		5	54	10,3	N	85,5	29,975
	7	ξ *Leonis*		0	55	37,63	S	87,5	29,940
	8	ξ *Aquilæ*	W	6	5	11	N	85,5	29,975
		γ *Aquilæ*		2	55	55,2	S	85,5	
		β *Aquilæ*		7	7	51,37		85,5	29,980
		γ *Sagittæ*		5	54	24,5	N	85,5	
	11	ξ *Aquilæ*	E	6	5	26,2		85,5	29,945
		α *Sagittæ*		4	30	21,7		85,5	
		γ *Aquilæ*		2	55	5,5	S	85,5	29,950
		γ *Sagittæ*		5	54	8,37	N	85,5	29,955
	12	ρ *Leonis*		2	46	41,93	S	89,05	29,755
		ι *Leonis*	W	1	28	40,74		88,5	29,760
		γ *Virginis*	E	5	27	53,44		88,5	
	14	ρ *Leonis*	W	2	46	24,13		82,5	29,845
		ι *Leonis*	E	1	29	2,25		88,5	
	15	ρ *Leonis*		2	46	34,66		89	29,850
		ι *Leonis*	W	1	28	43,12		88,5	
		γ *Virginis*		5	27	30,76		88,5	29,855
	18	μ *Aquilæ*	E	6	5	24		86	29,945
	22	γ *Virginis*		5	27	54,46		82,35	29,800
	25	ι *Leonis*		1	29	0,87		86,25	29,980
		γ *Virginis*	W	5	27	27,76		86,5	29,882
	26	γ *Virginis*	E	5	27	52,89		86,5	29,885
		ι *Leonis*		1	29	4,62		86,4	29,890
	27	α *Sagittæ*	W	4	30	34,13		84,5	29,880
		μ *Aquilæ*	E	6	5	26		86,5	29,885
	28	ι *Leonis*	W	1	28	44,17		86,5	29,800
		α *Sagittæ*	E	4	30	17,9	N	84,25	29,805
	29	κ *Cameri*		1	29	0,87	S	87,5	29,880
		γ *Virginis*		5	27	56,76		87,5	29,885
		α *Sagittæ*	W	4	30	30,5	N	80,75	
	30	ι *Leonis*		1	28	40,37	S	88,5	29,880
		γ *Virginis*		5	27	50,39		87,5	29,882
June	2	μ *Aquilæ*		6	5	28		85,75	29,925
		α *Sagittæ*		4	30	45	N	85,75	
		Atair	E	4	42	1,06	S	86	29,930
		β *Aquilæ*		7	8	3,87		86,25	
		γ *Sagittæ*		5	54	10,37	N	86	29,935
		ε *Delphini*	W	2	24	20	S	86	
		β *Delphini*		0	51	57,13	N	86,25	29,940
	3	μ *Aquilæ*	E	6	5	22	S	85,5	29,800
		α *Sagittæ*		4	30	24,13	N	85,5	
		γ *Aquilæ*	W	2	54	45	S	85,5	29,805
		Atair		4	42	41,96		85,5	
		β *Aquilæ*		7	7	45,34		85,5	29,810
		γ *Sagittæ*		5	54	32,87	N	85,5	
		ε *Delphini*	E	2	24	52	S	86,25	29,815
		β *Delphini*		0	51	39,83	N	86,25	
	5	μ *Aquilæ*	W	6	5	6,8	S	87	
		Atair	E	4	42	3,13		86,5	29,820
		ε *Delphini*	W	2	24	15		85,75	
		β *Delphini*		0	51	41,76		85,5	29,825
	6	γ *Aquilæ*		2	54	44		88	29,750
		β *Aquilæ*		7	7	46,04		88	29,755
		ε *Delphini*	E	2	24	51		88,5	
		β *Delphini*	W	0	51	40,66	N	88,5	29,760
		Atair		4	41	43,13	S	88	
	9	β *Delphini*		0	51	55,26	N	86,5	29,845
		Atair		4	41	44,63		87,75	29,850
	11	μ *Aquilæ*	E	6	5	15,2		87,75	29,925
		α *Sagittæ*	W	4	30	52,63		88,5	29,930
		γ *Aquilæ*		2	54	57	S	88,5	
		β *Aquilæ*		7	7	57,54		88,5	29,935
		γ *Sagittæ*	E	5	54	17,2	N	88,5	
		ε *Delphini*	W	2	24	18,8	S	88,5	29,940
		β *Delphini*		0	51	55,53	N	88,5	

1807. Month.		Names.	Face.	Observed Zenith Distances.				Thermometer.	Barometer.
				d.	m.	s.		d.	Inches.
June	11	*Atair*	E	4	40	57,16	S	88,5	29,945
	12	μ *Aquilæ*		6	5	17,5		89,5	29,915
		κ *Sagittæ*		4	30	24,0	N	89	
		γ *Aquilæ*		2	55	2,5	S	89,5	29,920
		γ *Sagittæ*		5	54	18,0	N	89,5	
		Atair		4	41	54,56	S	89,5	29,925
	13	γ *Aquilæ*	W	2	54	51,87		84,5	29,980
		Atair		4	41	43,93		84,5	
		β *Aquilæ*		7	7	51,74		84,5	29,985
		γ *Sagittæ*		5	54	33,67	N	84,5	
	16	γ *Sagittæ*		5	54	24		86,75	29,945
		ε *Delphini* . . .	E	2	24	47	S	88,5	
		β *Delphini* . . .		0	51	46,26	N	88,5	29,950
	17	κ *Sagittæ*		4	30	28,3		88,25	29,925
		γ *Aquilæ*	W	2	55	6	S	88,75	
		Atair	E	4	42	3,26		84,5	29,930
		β *Aquilæ*		7	8	5,94		88,75	
		γ *Sagittæ*		5	54	7,67	N	88,25	29,935
	18	γ *Aquilæ*	W	2	55	22,2	S	88,5	29,860
		κ *Sagittæ*		4	30	43,13	N	88,25	
		Atair		4	41	42,43		88,5	29,865
		β *Aquilæ*		7	7	44,54	S	88,5	
		γ *Sagittæ*		5	54	31,87	N	88,75	29,870
		ε *Delphini* . . .		2	23	7,67	S	89	
		β *Delphini* . . .		0	51	59,63	N	89	
	25	δ *Serpentis* . . .	E	1	52	45,39	S	86,5	29,895
		γ *Herculis* . . .		6	33	26,26	N	86,5	29,900
	26	γ *Aquilæ*	W	2	54	49,17	S	84,5	29,915
		Atair		4	41	41,46		84,5	
		β *Aquilæ*		7	7	48,73		84,5	29,920
		γ *Sagittæ*		5	54	27,8	N	84,5	29,925
	27	κ *Sagittæ*	E	4	30	22,2		86,5	29,975
		γ *Aquilæ*		2	55	4,83	S	86,5	
		Atair		4	42	3,26		86,5	29,980
		β *Aquilæ*		7	8	4,37		86,5	
		γ *Sagittæ*		5	54	11,87	N	86,5	29,985
		β *Delphini* . . .	W	0	51	54,76		85,5	
	29	κ *Sagittæ*		4	30	39,2		85,75	29,705
		γ *Aquilæ*		2	54	46,5	S	85,75	
		Atair		4	41	43,13		85,75	29,710
		β *Aquilæ*		7	7	46,24		85,75	
		γ *Sagittæ*		5	54	33	N	85,75	29,715
		ε *Delphini* . . .	E	2	24	53,5	S	85,5	
		β *Delphini* . . .		0	51	36,83	N	85	29,720

Observed ZENITH DISTANCES

TAKEN AT THE

MADRAS OBSERVATORY,

With the Small CIRCULAR INSTRUMENT *by* TROUGHTON.

After it was returned by the Superintendent of the Trigonometrical Survey, and Repaired.

1824. Month.	Face of the Instrument.	Names.	Observed Zenith Distances.			Thermometer.	Barometer.
			d.	m.	s.	d.	Inches.
February 4	E	β *Medusæ*	27	13	10	81	30,125
		Eridani	42	40	55	81	
		δ *Persei*	34	9	17,5	80,2	30,148
		γ *Eridani*	27	1	2,5	80	
		α *Reticuli*	75	53	2,5	80	
		δ *Centauri*	62	43	10	79	30,160
		δ *Crucis*	70	43	57,5	79	
		α *Crucis*	75	5	10	79	
		γ *Crucis*	69	6	17,5	79	
		γ *Centauri*	60	58	45	78,7	
		ε *Ursæ Maj.*	43	51	37,5	78,7	
		ι *Centauri*	48	46	35	78,7	
		ζ *Ursæ Maj.*	42	47	30	78,7	
		ε *Centauri*	65	32	57,5	78,5	
		η *Ursæ Maj.*	37	8	22,5	78,5	
		ζ *Centauri*	59	24	30	78,5	
		β *Centauri*	72	29	10	78,5	
		θ *Centauri*	48	29	55	78,5	30,165
		α *Draconis*	52	9	30	78,5	
		η *Centauri*	54	21	55	78,5	
		α *Centauri*	73	3	25	78,5	
		α *Lupi*	59	37	35	78,5	
		β *Ursæ Min.*	61	48	22,5	78,5	
		γ *Scorpionis*	37	36	12,5	78,5	
	W	β *Medusæ*	27	9	15	81	30,155
		Eridani	42	46	40	80,7	30,158
		α *Persei*	36	6	7,5	80,5	30,160
		δ *Persei*	34	4	55	80,3	
		γ *Eridani*	27	6	30	80	
		α *Reticuli*	75	57	37,5	79,8	30,170
		α *Dorudi*	68	28	35	79,6	
		Capella	32	41	35	79,5	30,180
		γ *Ursæ Maj.*	44	28	22,5	75,5	30,175
		δ *Centauri*	62	48	50	75,5	
		δ *Crucis*	70	49	30	74,8	
		α *Crucis*	75	9	37,5	74,8	
		γ *Crucis*	69	10	35	74,5	30,172
		κ *Mus. Indic.*	81	9	37,5	74,2	
		γ *Centauri*	61	3	40	74,2	
		β *Crucis*	71	47	0	74,2	
		ε *Ursæ Maj.*	43	47	25	74	30,170
		Polaris	78	25	55	73	

1824. Month.		Face.	Names.	Observed Zenith Distances.			Thermometer.	Barometer.
				d.	m.	s.	d.	Inches.
February	5	W	ι *Centauri* . . .	48	51	55	73	30,170
			ζ *Ursæ Maj.* . . .	47	17	5	73	
			ε *Centauri*	65	38	5	73	
			η *Ursæ Maj.* . . .	37	3	30	73	
			ζ *Centauri*	59	29	35	72,8	
			β *Centauri*	72	33	50	72,8	
			θ *Centauri*	48	35	47,5	72,7	
			α *Draconis*	52	3	40	72,5	
			λ *Virginis*	25	39	30	72,5	
			η *Centauri*	54	27	52,5	72,5	
			κ *Centauri*	73	9	30	72,5	
			α *Lupi*	59	42	30	72,5	
			α *Libræ*	28	24	0	72,5	
			β *Lupi*	55	29	47,5	72,5	
			β *Ursæ Min.* . . .	61	42	50	72,5	
			γ *Scorpionis* . . .	37	40	10	72,5	
	6		β *Medusæ*	27	9	7,5	81	30,155
			Eridani	42	46	35	80,7	
			α *Persei*	36	6	17,5	80,4	
			δ *Persei*	34	5	20	80	30,160
			γ *Eridani*	27	6	27,5	79,7	
			α *Reticuli*	75	57	50	79,5	
			α *Doradi*	68	28	50	79,5	
			Capella	32	41	50	79,2	30,165
			γ *Ursæ Maj.* . . .	41	32	0	73,5	
			δ *Crucis*	70	49	37,5	73,5	
			γ *Crucis*	69	11	15	73,5	
			γ *Centauri* . . .	61	3	50	73,5	
			β *Crucis* . . .	71	46	55	73	
			ε *Ursæ Maj.* . . .	43	47	5	73	
			Polaris	78	26	30	72	30,170
			ι *Centauri*	48	52	0	72	
			ζ *Ursæ Maj.* . . .	42	42	45	72	
			ε *Centauri*	65	37	40	71,5	
			η *Ursæ Maj.* . . .	37	3	25	71,5	
			ζ *Centauri*	59	29	20	71,5	
			β *Centauri*	72	34	30	71	
			θ *Centauri*	48	34	25	71	
			α *Draconis* . . .	52	4	50	71	
			λ *Virginis*	25	38	50	71	
			η *Centauri*	54	27	52	71	
			α *Centauri*	73	9	27,5	71	
			α *Lupi*	59	42	40	70,5	
			α *Libræ*	28	23	25	70,5	
			β *Lupi*	55	29	40	70	
			β *Ursæ Min.* . . .	61	43	2,5	70	
			γ *Scorpionis* . . .	37	40	5	70	
	7	E	β *Medusæ*	27	13	15	80,5	30,150
			α *Persei*	36	11	2,5	80,5	
			δ *Persei*	34	10	20	79,7	
			γ *Eridani*	27	1	35	79,7	30,155
			α *Reticuli*	75	53	40	79	
			α *Doradi*	68	24	30	79	
			Capella	32	45	55	78,8	30,160
			γ *Ursæ Maj.* . . .	41	37	15	73	30,165
			δ *Crucis*	70	45	20	73	
			α *Crucis*	75	5	25	73	
			γ *Crucis*	61	6	50	72,5	
			ε *Ursæ Maj.* . . .	43	51	25	72,5	
			Polaris	78	30	2,5	72	
			ι *Centauri*	48	47	48	72	
			ζ *Ursæ Maj.* . . .	42	47	45	72	30,168
			η *Ursæ Maj.* . . .	37	8	17,5	71,5	
			ζ *Centauri*	59	24	20	71,5	
			β *Centauri* . . .	72	30	5	71,5	30,170
			θ *Centauri*	48	30	25	71,5	
			α *Draconis* . . .	52	9	5	71	
			λ *Virginis*	25	34	35	71	
			η *Centauri*	54	23	5	71	
			α *Centauri*	73	5	10	70,8	
			α *Lupi*	59	37	20	70,8	
			α *Libræ*	28	19	45	70,8	

1824. Month.	Face.	Names.	Observed Zenith Distances. d.	m.	s.	Thermometer. d.	Barometer. Inches.
February 7	E	ε *Lupi*	55	25	20	70,5	30,170
		β *Ursæ Min.*	61	48	30	70,5	
		γ *Scorpionis*	37	36	20	70,5	
8		α *Persei*	36	10	50	80	30,135
		δ *Persei*	34	10	20	80	
		γ *Eridani*	27	1	55	79,5	30,140
		α *Reticuli*	75	53	23	79	30,145
		α *Doradi*	68	24	15	79	
		Rigel	21	25	40	78,7	30,150
		β *Leporis*	33	56	0	78,7	
		α *Leporis*	30	59	25	78,7	
		β *Doradi*	75	56	0	78,7	30,155
		α *Columbæ*	47	11	7,5	78,7	
		γ *Leporis*	35	31	55	78,7	
		δ *Leporis*	33	55	35	78,7	
		β *Columbæ*	48	51	27,5	78,7	
		β *Crucis*	71	43	2,5	73	30,165
		ε *Ursæ Maj.*	43	51	40	73	
		Polaris	78	50	25	73	
		ι *Centauri*	48	47	30	72,5	
		ζ *Ursæ Maj.*	42	47	50	72,5	30,170
		ε *Centauri*	65	33	40	72,5	
		η *Ursæ Maj.*	37	8	40	72	
		ζ *Centauri*	59	24	55	72	
		β *Centauri*	72	30	5	71,3	
		θ *Centauri*	48	30	22,5	71,3	
		α *Draconis*	52	9	20	71,3	
		λ *Virginis*	25	35	25	71,3	
		η *Centauri*	54	22	55	70	
		κ *Centauri*	73	4	45	70	
		κ *Lupi*	59	37	55	69,5	30,175
		α *Libræ*	28	20	10	69,5	
		δ *Lupi*	55	25	40	69,5	
		β *Ursæ Min.*	61	48	22,5	69,5	
		γ *Scorpionis*	37	36	40	69,5	
		β *Libræ*	21	45	15	69,5	
9	W	α *Persei*	36	6	30	80,5	30,158
		δ *Persei*	34	5	35	80	
		γ *Eridani*	27	6	45	79	30,160
		α *Reticuli*	75	57	37,5	78,8	
		α *Doradi*	68	28	55	78,4	
		Capella	32	41	50	78	30,165
		β *Leporis*	33	59	45	78	
		α *Leporis*	31	2	30	78	30,170
		β *Doradi*	75	38	40	78	
		α *Columbæ*	47	16	17,5	78	30,180
		γ *Leporis*	35	36	27,5	78	
		δ *Leporis*	33	59	35	78	
		β *Columbæ*	48	56	22,5	78	
		β *Crucis*	71	46	55	68,5	30,160
		ε *Ursæ Maj.*	43	47	20	68,5	
		Polaris	78	26	45	68,5	
		ι *Centauri*	48	51	52,5	68,5	
		ζ *Ursæ Maj.*	47	16	57,5	68,5	
		ζ *Centauri*	59	29	25	68,5	
		β *Centauri*	72	34	17,5	68	
		θ *Centauri*	48	34	57,5	68	
		λ *Virginis*	25	59	20	68	30,163
		η *Centauri*	54	27	40	68	
		κ *Centauri*	73	9	25	67,7	
		κ *Lupi*	59	41	57,5	67,7	
		α *Libræ*	28	23	30	67,7	30,165
		β *Lupi*	55	29	47,5	67,7	
		β *Ursæ Min.*	61	43	0	67,7	
		γ *Scorpionis*	37	40	15	67,7	
		β *Libræ*	21	49	17,5	67,7	
10	E	α *Persei*	36	11	0	80	30,155
		δ *Persei*	34	10	20	79,5	
		γ *Eridani*	27	1	40	79	30,160
		α *Reticuli*	75	53	25	78,5	
		α *Doradi*	68	24	25	78,5	
		Capella	32	45	55	78,5	

1824. Month.		Face.	Names.	Observed Zenith Distances. d.	m.	s.	Thermometer. d.	Barometer. Inches.
February	10	E	β *Leporis*	33	56	0	78	30,165
			κ *Leporis*	30	59	15	78	30,170
			β *Doradi*	75	35	45	77,5	
			κ *Columbæ*	47	11	15	77,5	30,175
			γ *Leporis*	35	32	5	77,5	
			δ *Leporis*	33	55	55	77,5	
			β *Columbæ*	48	51	20	77,5	
			β *Crucis*	71	42	50	71,7	30,158
			ε *Ursæ Maj.*	43	51	30	71	
			Polaris	78	30	15	70,5	30,160
			ι *Centauri*	48	47	45	70	
			ζ *Ursæ Maj.*	42	47	50	70	
			ε *Centauri*	65	33	37,5	69,5	
			η *Ursæ Maj.*	37	8	50	69	
			ζ *Centauri*	59	25	15	68,9	
			β *Centauri*	72	30	2,5	68,5	
			λ *Virginis*	25	35	20	68	
			η *Centauri*	54	22	52,5	68	
			α *Centauri*	73	4	48,5	67,7	30,165
			α *Lupi*	59	37	50	68	
			α *Libræ*	28	19	55	68	
			β *Lupi*	55	25	35	68,1	
			γ *Scorpionis*	37	36	25	68,1	
			β *Trion.*	28	2	0	68,3	
			β *Libræ*	21	45	25	68,5	
			γ *Libræ*	27	13	25	68,5	
	11	W	α *Persei*	36	6	25	80,5	30,145
			δ *Persei*	34	6	10	80	
			γ *Eridani*	27	6	55	80	
			α *Reticuli*	75	57	45	79,5	
			α *Doradi*	68	28	40	79	
			Capella	57	18	20	79	30,150
			β *Leporis*	33	59	45	78,8	
			κ *Leporis*	31	2	40	78,8	
			β *Doradi*	75	39	5	78,7	30,155
			α *Columbæ*	47	16	22,5	78,7	
			γ *Leporis*	35	36	15	78,7	30,160
			δ *Leporis*	33	59	45	78,7	
			β *Columbæ*	48	56	10	78,7	30,165
			ε *Ursæ Maj.*	43	47	10	78	30,160
			ι *Centauri*	48	51	40	72	
			ζ *Ursæ Maj.*	42	43	10	70,5	
			ε *Centauri*	65	38	3	70,5	
			η *Ursæ Maj.*	37	3	55	70,5	
			ζ *Centauri*	59	29	40	70,5	30,163
			λ *Virginis*	25	39	5	70,3	
			η *Centauri*	54	27	50	70,2	
			α *Centauri*	73	9	30	70,2	
			α *Lupi*	59	42	5	70	30,165
			α *Libræ*	28	24	5	70	
			β *Lupi*	55	29	47,5	69,8	
			γ *Scorpionis*	37	40	7,5	69,8	
			β *Trion.*	27	57	55	69,8	
			β *Libræ*	21	49	30	69,8	
			δ *Lupi*	53	5	0	69,7	
			γ *Lupi*	53	39	10	69,7	
			γ *Libræ*	27	17	45	69,7	
	12	E	δ *Persei*	34	10	17,5	80,5	30,146
			γ *Eridani*	27	2	10	80	
			α *Doradi*	68	24	40	79	30,148
			Capella	32	46	0	78,7	
			β *Leporis*	33	55	45	78,7	
			κ *Leporis*	30	59	15	78	30,149
			β *Doradi*	75	35	30	78	
			κ *Columbæ*	47	11	35	78	
			γ *Leporis*	35	31	57,5	77,5	30,150
			δ *Leporis*	33	55	40	77,5	
			β *Columbæ*	48	51	10	77,5	
			β *Aurigæ*	31	52	17,5	77,5	
			ι *Centauri*	48	48	30	68	30,125
			ζ *Ursæ Maj.*	42	47	25	68	
			ε *Centauri*	65	33	32,5	68	

1824. Month.		Face.	Names.	Observed Zenith Distances. d.	m.	s.	Thermometer. d.	Barometer. Inches.
February	12	E	*η Ursæ Maj.* . . .	37	8	45	67,5	30,125
			ζ Centauri	59	24	50	67,5	
			β Centauri	72	30	20	67,2	
			λ Virginis	25	35	15	67,2	
			η Centauri	34	23	0	67,5	30,120
			α Centauri	73	5	10	67,5	
			α Lupi	39	38	5	67,5	
			α Libræ	28	20	15	67,5	
			β Lupi	55	25	32,5	67,5	
			γ Scorpionis . . .	37	36	27,5	67,5	
			β Trion.	28	2	10	67,5	
			γ Triang. Aus. . . .	80	57	42,5	67,7	
			β Libræ	21	45	25	67,7	
			δ Lupi	53	0	35	68	
			γ Lupi	53	34	0	68	
	13	W	*α Doradi*	68	28	55	79,5	30,090
			Capella	32	41	50	79	
			β Leporis	33	59	47,5	79	
			α Leporis	31	2	50	78,5	30,110
			β Doradi	75	38	55	78,5	
			α Columbæ	47	16	15	78	
			γ Leporis	35	36	20	78	
			δ Leporis	33	59	42,5	78	
			β Columbæ	48	55	57,5	78	
			β Aurigæ	31	48	15	78	
			η Ursæ Maj. . . .	37	4	0	71	
			ζ Centauri	59	29	42,5	71	30,112
			β Centauri	72	34	5	71	
			θ Centauri	48	34	15	71	
			η Centauri	54	28	0	71	
			α Centauri	73	9	10	71	30,115
			α Lupi	39	41	50	71	
			α Libræ	28	21	0	71	
			β Lupi	55	29	47,5	71	
			β Ursæ Min. . . .	61	43	15	70,8	
			γ Scorpionis . . .	37	40	5	70,5	
			β Trion.	27	58	15	70,5	
			γ Triang. Aus. . . .	81	1	22,5	70,5	
			β Libræ	21	49	40	70,5	
			δ Lupi	53	5	20	70,5	
			γ Lupi	53	39	0	70,5	
	14	E	*γ Eridani* . . .	27	2	23	79,7	30,070
			α Reticuli . . .	75	53	30	79	30,073
			α Doradi	68	24	15	78,7	30,076
			Capella	32	46	5	78,6	30,075
			β Leporis	33	55	57,5	78,5	30,076
			α Leporis	30	59	25	78,4	
			α Columbæ	47	11	20	78,2	30,078
			γ Leporis	35	32	10	78	
			δ Leporis	33	55	45	78	30,080
			β Columbæ	48	51	12,5	77,8	
			β Aurigæ	58	7	37,5	77,8	
	15	W	*γ Eridani* . . .	27	6	35	80,5	30,065
			α Reticuli . . .	75	57	40	80	
			α Doradi	68	28	45	79,5	30,070
			Capella	32	41	50	79	
			β Leporis	33	59	55	78,5	30,085
			α Leporis	31	2	45	78,5	
			α Columbæ	47	16	15	78,5	
			γ Leporis	35	36	10	78,4	30,093
			δ Leporis	33	59	45	78,4	
			β Columbæ	48	56	10	78,2	
			β Aurigæ	31	48	25	78,2	30,110
			η Ursæ Maj. . . .	37	4	5	72,5	
			ζ Centauri	59	29	30	72,5	
			β Centauri	72	34	15	72,5	
			θ Centauri	48	35	15	72,5	
			α Draconis	52	4	50	72,2	
			λ Virginis	25	39	17,5	72,2	
			η Centauri	54	28	5	72	
			α Centauri	73	9	30	72	
			α Lupi	39	42	10	72	

1824. Month.	Face.	Names.	Observed Zenith Distances. d.	m.	s.	Thermometer. d.	Barometer. Inches.
February 15	W	α *Libræ*	28	23	50	72	30,110
		β *Lupi*	55	29	47,5	72	
		β *Ursæ Min.* . . .	61	43	30	71,8	30,112
		γ *Scorpionis* . . .	37	40	15	71,8	
		β *Trion.*	27	58	17,5	71,8	
		β *Libræ*	21	49	32,5	71,5	
		δ *Lupi*	53	5	15	71,5	
		γ *Lupi*	53	39	0	71,5	
		γ *Libræ*	27	17	40	71,5	
16	E	γ *Eridani*	27	2	25	81,2	30,084
		α *Reticuli*	75	53	30	80,6	30,087
		α *Doradi*	68	24	15	80	30,090
		Capella	32	45	52,5	80	
		β *Leporis* . . .	33	55	55	80	30,095
		α *Leporis* . . .	30	59	15	79,8	
		β *Doradi* . . .	75	35	10	79,8	30,098
		γ *Leporis* . . .	35	32	5	79,6	
		δ *Leporis* . . .	33	55	42,5	79,6	30,105
		β *Columbæ* . . .	48	51	20	79,5	
		β *Aurigæ* . . .	31	52	22,5	79,5	
		ζ *Ursæ Maj.* . . .	42	47	35	72,7	30,120
		ε *Centauri* . . .	65	33	45	72,7	
		η *Ursæ Maj.* . . .	37	8	42,5	72,7	
		ζ *Centauri* . . .	59	24	55	72,6	30,122
		β *Centauri* . . .	72	30	15	72,6	
		θ *Centauri* . . .	48	30	20	72,6	
		α *Draconis* . . .	52	9	25	72,6	30,124
		λ *Virginis* . . .	25	35	25	72,6	
		η *Centauri* . . .	54	23	0	72,5	30,125
		α *Centauri* . . .	73	5	10	72,5	
		α *Lupi*	29	38	0	72,5	
		α *Libræ*	28	20	10	72,5	
		β *Lupi*	55	25	27,5	72,5	
		β *Ursæ Min.* . . .	61	48	10	72,5	
		γ *Scorpionis* . . .	37	36	40	72,5	
		β *Trion.*	28	1	50	72,5	
		γ *Triang. Aus.* . . .	80	57	30	72,5	
		β *Libræ*	21	45	35	72,5	
		δ *Lupi*	53	0	30	72,5	
		γ *Lupi*	53	34	15	72,5	
		γ *Libræ*	27	13	22,5	72,5	
17	W	γ *Eridani* . . .	27	6	45	81	30,087
		α *Reticuli* . . .	75	57	42,5	81	30,100
		α *Dorad.* . . .	68	28	47,5	81	
		Capella . . .	32	41	55	81	30,110
		α *Leporis* . . .	31	2	55	80,7	30,113
		γ *Leporis* . . .	35	36	15	80,7	30,120
		δ *Leporis* . . .	33	59	40	80,6	
		β *Aurigæ* . . .	31	48	35	80,5	30,125
		ζ *Canis Maj.* . . .	43	5	12,5	80,5	30,130
		Canopus . . .	65	40	25	75	30,110
		η *Ursæ Maj.* . . .	37	4	5	75	
		ζ *Centauri* . . .	59	29	25	75	
		β *Centauri* . . .	72	34	20	75	
		θ *Centauri* . . .	48	35	20	75	
		α *Draconis* . . .	52	4	47,5	74,5	
		λ *Virginis* . . .	25	39	20	74,5	30,115
		η *Centauri* . . .	54	28	10	74,5	
		α *Centauri* . . .	73	9	25	74,5	
		α *Lupi*	29	42	25	74,5	
		α *Libræ*	28	24	5	74,5	
		β *Lupi*	55	29	50	74,5	
		β *Ursæ Min.* . . .	61	43	35	74,5	
		γ *Scorpionis* . . .	37	40	30	74,2	30,116
		γ *Triang. Aus.* . . .	81	1	20	74,2	
		β *Libræ*	21	49	37,5	74,2	
		δ *Lupi*	53	5	5	74	30,120
		γ *Lupi*	53	39	15	74	
		γ *Libræ*	27	17	55	74	
18	E	γ *Eridani* . . .	27	2	40	82,5	30,060
		α *Reticuli* . . .	75	53	45	81,7	
		α *Dorad.* . . .	68	24	30	81	

1824. Month.	Face.	Names.	Observed Zenith Distances. d.	m.	s.	Thermometer. d.	Barometer. Inches.
February.	18	E	*Capella*	32	45	55	81	30,060
			Rigel	21	26	30	80,8	
			β *Leporis*	33	56	10	80,8	
			α *Leporis*	30	59	12,5	80,5	30,065
			β *Doradi*	75	35	40	80,5	
			γ *Leporis*	35	32	7,5	80	
			δ *Leporis*	33	55	50	79,7	
			β *Columbæ*	48	51	17,5	79,7	
			β *Aurigæ*	31	52	10	79,7	
			ζ *Canis Maj.*	43	0	45	79,6	
			Canopus	65	36	20	79,5	
			η *Ursæ Maj.*	37	8	30	73,5	30,060
			ζ *Centauri*	59	25	10	73,5	
			β *Centauri*	72	30	12,5	73,5	
			θ *Centauri*	48	30	30	73,5	
			α *Draconis*	52	9	35	73	30,065
			λ *Virginis*	25	35	20	73	
			η *Centauri*	54	23	7,5	73	
			α *Centauri*	73	5	12,5	73	
			α *Lupi*	59	38	5	73	
			α *Libræ*	28	19	57,5	73	
			β *Lupi*	55	25	22,5	72,7	
			β *Ursæ Min.*	61	48	20	72,7	
			γ *Scorpionis*	37	36	30	72,7	
			β *Trion.*	28	2	15	72,7	
			γ *Triang. Aus.*	80	57	40	72,7	30,070
			β *Libræ*	21	45	45	72,7	
			δ *Lupi*	53	0	35	72,7	
			γ *Lupi*	53	34	20	72,7	
			γ *Libræ*	27	13	20	72,7	
	19	W	α *Reticuli*	75	57	47,5	81	30,050
			α *Doradi*	68	28	55	80,8	30,052
			Capella	32	41	55	80	30,055
			Rigel	21	30	25	79,7	
			β *Leporis*	34	0	5	79,7	
			α *Leporis*	31	2	57,5	79,4	30,058
			β *Dorad.*	75	38	55	79,4	
			γ *Leporis*	35	36	30	79,2	
			δ *Leporis*	33	59	47,5	79,2	30,060
			β *Columbæ*	48	56	10	79	
			β *Aurigæ*	31	48	35	79	
			ζ *Canis Maj.*	43	5	0	78,8	
			Canopus	65	40	40	78,6	30,065
			γ *Navis*	56	8	0	70,4	30,070
			η *Ursæ Maj.*	37	4	0	70	
			ζ *Centauri*	59	29	35	70	
			β *Centauri*	72	34	30	70	
			θ *Centauri*	48	35	15	70	
			α *Draconis*	52	4	55	70	30,071
			λ *Virginis*	25	39	30	70,2	
			η *Centauri*	54	28	0	70,2	30,072
			α *Lupi*	59	42	10	70,2	
			α *Libræ*	28	24	20	70,2	
			2 α *Centauri*	73	9	32,5	70,2	
	20	E	α *Reticuli*	75	53	20	82	30,080
			α *Dorad.*	68	24	20	81,5	
			Capella	32	46	11	81	30,085
			Rigel	21	26	40	80,5	
			β *Leporis*	33	56	10	80,8	30,090
			α *Leporis*	30	59	5	81	30,093
			β *Dorad.*	75	35	25	80,8	
			α *Columbæ*	47	11	17,5	80,6	30,095
			γ *Leporis*	35	32	10	80,5	30,100
			δ *Leporis*	33	55	30	80,3	
			β *Columbæ*	48	51	17,5	80	30,105
			β *Aurigæ*	32	52	20	80	
			ζ *Canis Maj.*	43	0	35	79,7	
			Canopus	65	36	7,5	79,7	
			ν *Navis*	56	3	17,5	79,5	30,108
			η *Ursæ Maj.*	37	8	42,5	70,2	30,105
			ζ *Centauri*	59	25	20	70,2	
			β *Centauri*	42	30	20	70,3	30,110

1824. Month.		Face.	Names.	Observed Zenith Distances. d.	m.	s.	Thermometer. d.	Barometer. Inches.
February	20	E.	θ *Centauri*	48	30	30	70,5	30,110
			α *Draconis*	52	9	37,5	71	
	21	W	α *Reticuli*	75	57	50	81,5	30,105
			α *Dorad.*	68	28	50	81	30,110
			Capella	32	42	5	80,7	
			Rigel	21	30	17,5	80,7	
			β *Leporis*	33	59	40	80,7	
			α *Leporis*	31	2	30	80,5	30,112
			β *Dorad.*	75	39	10	80,5	
			γ *Leporis*	35	36	17,5	80	
			δ *Leporis*	33	59	35	79,7	30,114
			β *Columbæ*	48	55	55	79,7	
			β *Aurigæ*	58	11	20	79,7	
			ζ *Canis Maj.*	43	4	45	79,6	30,116
			Canopus	65	40	25	79,5	30,117
			ν *Navis*	56	7	40	79,5	
			Sirius	29	34	30	79,5	
			μ *Ursæ Maj.*	37	4	2,5	72,5	30,105
			λ *Virginis*	25	39	15	72,5	
			μ *Centauri*	54	27	50	72,5	
			2 α *Centauri*	73	9	30	72,3	
			α *Lupi*	59	41	55	72,3	
			α *Libræ*	28	23	57,5	72,3	30,108
			β *Lupi*	55	29	40	72	
			β *Ursæ Min.*	61	43	45	72	
			γ *Scorpionis*	37	4	20	72	
			β *Trion.*	27	58	40	72	
			γ *Triang. Aus.*	81	1	5	72	
			β *Libræ*	21	49	30	72	30,110
			γ *Lupi*	53	39	5	72	
			γ *Libræ*	27	17	45	72	
			β *Triang. Aus.*	75	54	30	71,8	
			ε *Scorpionis*	41	46	55	71,8	
			π *Scorpionis*	38	40	57,5	71,6	
			δ *Scorpionis*	35	12	5	71,6	
			β *Scorpionis*	32	24	30	71,5	
			ν *Scorpionis*	32	4	52,5	71,5	
	22	E	α *Dorad.*	68	24	50	80,7	30,050
			β *Leporis*	33	56	22,5	80,6	30,052
			α *Leporis*	30	59	20	80,6	
			β *Dorad.*	75	36	2,5	80,6	30,054
			δ *Leporis*	33	56	5	80,5	
			ζ *Canis Maj.*	43	1	20	80,5	30,055
			ν *Navis*	56	3	45	80,3	30,057
			Sirius	29	30	45	80,2	30,058
			2 α *Centauri*	73	5	50	74,5	30,035
			α *Lupi*	59	38	30	74	
			α *Libræ*	28	20	17,5	73,8	30,036
			β *Lupi*	55	25	50	73	
			β *Ursæ Min.*	61	47	50	72,8	
			γ *Scorpionis*	37	36	55	72,8	
			β *Trion.*	28	1	20	72,5	
			γ *Triang. Aus.*	80	57	57,5	72,5	30,037
			β *Libræ*	21	45	55	71,9	
			δ *Lupi*	53	1	10	71,5	30,038
			γ *Lupi*	53	35	5	71,5	
			γ *Libræ*	27	13	0	71	
			β *Triang. Aus.*	75	51	0	71	
			ε *Scorpionis*	41	42	27,5	71	30,040
			π *Scorpionis*	38	37	37,5	70,8	
			δ *Scorpionis*	35	8	52,5	70,8	
			β *Scorpionis*	32	20	40	70,7	
			ν *Scorpionis*	32	1	30	70,7	
	23	W	α *Dorad.*	68	28	32,5	82	29,975
			β *Leporis*	34	0	2,5	81,5	29,980
			α *Leporis*	31	2	45	81,5	
			γ *Leporis*	35	36	2,5	81,5	
			δ *Leporis*	33	59	22,5	81,5	
			β *Aurigæ*	31	49	15	81,5	
			ζ *Canis Maj.*	43	4	32,5	81,2	29,985
			Canopus	65	39	50	81,2	29,999
			ν *Navis*	56	7	25	81	30,000

1824. Month.	Face.	Names.	Observed Zenith Distances. d.	m.	s.	Thermometer. d.	Barometer. Inches.
February 23	W	*Sirius*	29	34	35	81	30,000
		ζ *Centauri*	59	29	25	76	30,009
		β *Centauri*	72	33	50	76	
		θ *Centauri*	48	34	40	76	
		η *Centauri*	54	27	35	76,4	30,020
		ε *Lupi*	59	41	30	76,4	
		α *Libræ*	28	23	50	76,6	30,030
		β *Lupi*	55	29	20	76,6	
		β *Ursæ Min.*	63	43	55	76,8	30,035
		γ *Scorpionis*	37	39	55	76,8	
		β *Trion.*	27	58	25	77	30,040
		γ *Triang. Aus.*	81	0	55	77,3	
		β *Libræ*	21	49	22,5	77,5	30,045
		δ *Lupi*	53	4	42,5	77,7	
24	E	*Capella*	32	45	55	82	30,015
		Rigel	21	27	0	82	
		β *Leporis*	33	55	55	82	
		α *Leporis*	30	59	25	82	
		β *Dorad.*	75	35	27,5	81,5	
		γ *Leporis*	35	32	25	81,5	
		δ *Leporis*	33	55	55	81,5	
		β *Aurigæ*	31	51	35	81	
		ζ *Canis Maj.*	43	1	0	81	
		Canopus	65	36	37,5	81	30,020
		Sirius	29	31	2,5	81	30,035
		ζ *Centauri*	59	25	55	78	
		β *Centauri*	72	30	27,5	78	
		θ *Centauri*	48	30	47,5	78	
		α *Draconis*	52	9	25	78	30,038
		λ *Virginis*	25	35	57,5	78	
		η *Centauri*	54	23	30	78	
		2 α *Centauri*	73	6	2,5	78	30,040
		ε *Lupi*	59	38	25	78	
		α *Libræ*	28	20	25	78	
		β *Lupi*	55	25	35	78	
		γ *Scorpionis*	37	36	45	78	
		β *Trion.*	28	1	45	78	
		γ *Triang. Aus.*	80	57	42,5	78	
		β *Libræ*	21	46	0	78	30,048
		δ *Lupi*	53	0	55	77,5	
		γ *Lupi*	53	34	57,5	77,5	30,050
		γ *Libræ*	27	13	25	77,5	
		β *Triang. Aus.*	75	50	57,5	77,5	
		ε *Scorpionis*	41	42	50	77,3	30,055
		π *Scorpionis*	38	37	55	77,3	
		υ *Scorpionis*	32	1	32,5	77	
		σ *Scorpionis*	38	11	7,5	77	
25	W	*Capella*	32	42	5	82	30,030
		Rigel	21	30	0	82	
		β *Leporis*	34	0	0	82	
		α *Leporis*	31	2	20	82	30,035
		β *Dorad.*	75	39	25	81,8	
		γ *Leporis*	35	36	15	81,8	30,037
		δ *Leporis*	33	59	25	81,7	30,040
		β *Aurigæ*	31	49	35	81,7	
		ζ *Canis Maj.*	58	10	25	81,5	30,042
		Canopus	65	40	12,5	81,5	
		ν *Navis*	56	7	52,5	81,5	30,045
		Sirius	29	34	30	81,5	
		ζ *Centauri*	59	29	30	77	30,060
		β *Centauri*	72	33	35	77	
		θ *Centauri*	48	34	50	77	
		λ *Virginis*	25	39	5	76,8	30,062
		η *Centauri*	54	27	15	76,8	
		2 α *Centauri*	73	5	25	76,8	
		ε *Lupi*	59	41	40	76,5	30,065
		α *Libræ*	28	23	42,5	76,5	
		β *Lupi*	55	29	35	76,5	
		γ *Scorpionis*	37	40	5	76,8	
		β *Trion.*	27	58	17,5	76,8	30,062
		γ *Triang. Aus.*	81	1	2,5	76,8	
		β *Libræ*	21	49	25	76,8	30,060

1824. Month.		Face.	Names.	Observed Zenith Distances. d.	m.	s.	Thermometer. d.	Barometer. Inches.
February	25	W	δ *Lupi*	53	4	55	77	30,060
			γ *Lupi*	53	38	45	77	
			γ *Libræ*	27	17	35	77	30,059
			β *Triang. Aus.*	75	54	15	77	
			ϱ *Scorpionis*	41	46	25	77	
			π *Scorpionis*	38	41	10	77,2	30,055
			δ *Scorpionis*	35	11	55	77,2	
			β *Scorpionis*	32	24	10	77,2	
			ν *Scorpionis*	32	5	0	77,4	30,052
			σ *Scorpionis*	38	15	2,5	77,4	
			Antares	39	7	20	77,5	
			τ *Scorpionis*	40	55	57,5	77,5	
	26	E	*Rigel*	21	26	47,5	82,5	30,035
			α *Leporis*	30	59	25	82,2	30,036
			γ *Leporis*	35	32	10	82,2	30,039
			β *Columbæ*	48	51	35	82,2	30,050
			β *Aurigæ*	32	51	45	82	30,052
			ζ *Canis Maj.*	43	1	5	82	
			Canopus	65	36	50	81,8	30,060
			ν *Navis*	56	3	57,5	81,8	30,065
			Sirius	29	30	50	81,7	30,070
			ε *Canis Maj.*	41	45	55	81,6	30,073
			δ *Canis Maj.*	39	8	45	81,5	30,075
			β *Centauri*	72	30	30	78,2	30,070
			η *Centauri*	48	30	50	78	
			α *Draconis*	52	9	25	78	30,072
			½ *Centauri*	54	23	20	77,6	30,073
			2 α *Centauri*	73	5	45	77,6	
			α *Lupi*	59	38	10	77,3	30,074
			α *Libræ*	28	20	15	77	30,075
			β *Lupi*	55	25	50	77	
			γ *Scorpionis*	37	36	47,5	77	
			β *Trion.*	28	1	45	77	
			ι *Libræ*	21	46	2,5	76,8	
			δ *Lupi*	53	1	10	76,8	
			γ *Lupi*	53	34	45	76,8	
			γ *Libræ*	27	13	40	76,8	
			β *Triang. Aus.*	75	51	10	76,5	
			ϱ *Scorpionis*	41	42	45	76,5	30,078
			π *Scorpionis*	38	37	55	76,5	
			δ *Scorpionis*	35	8	42,5	76,5	
			β *Scorpionis*	32	20	35	76,5	
			ν *Scorpionis*	32	1	25	76,5	30,080
			σ *Scorpionis*	38	11	20	76,3	
			Antares	39	3	20	76,3	
			τ *Scorpionis*	40	51	47,5	76,3	
			ζ *Ophiuchi*	23	14	5	76,3	
			α *Triang. Aus.*	81	37	47,5	76,3	
	27	W	*Capella*	32	42	10	82,7	30,115
			Rigel	21	30	5	82,7	
			α *Leporis*	31	2	35	82,7	
			α *Columbæ*	47	15	40	82,5	30,116
			γ *Leporis*	35	36	10	82,5	30,118
			β *Columbæ*	48	55	40	82,5	
			β *Aurigæ*	31	48	55	82,5	
			ζ *Canis Maj.*	53	4	40	82,3	30,120
			Canopus	65	40	10	82,1	
			ν *Navis*	56	7	52,5	82	30,125
			ε *Canis Maj.*	41	49	37,5	82	
			δ *Canis Maj.*	39	12	32,5	81,7	
			β *Centauri*	72	33	50	79,5	
			η *Centauri*	48	35	0	79	
			λ *Virginis*	25	39	5	78,6	30,128
			2 α *Centauri*	73	9	15	78,6	
			α *Lupi*	59	41	30	78,6	
			α *Libræ*	28	23	20	78,3	
			β *Lupi*	55	29	45	78	
			γ *Scorpionis*	37	40	0	77,9	
			β *Trion.*	27	58	30	77,7	30,130
			γ *Triang. Aus.*	81	1	0	77,7	
			β *Libræ*	21	49	15	77,6	
			δ *Lupi*	53	4	50	77,6	

1824. Month.	Face.	Names.	Observed Zenith Distances. d.	m.	s.	Thermometer. d.	Barometer. Inches.
February 27	W	*γ Lupi*	53	58	40	77,3	30,130
		γ Libræ	27	17	20	77	
		β Triang. Aus.	75	54	25	77	
		ε Scorpionis	41	46	15	76,8	
		π Scorpionis	38	40	50	76,8	
		δ Scorpionis	32	12	2,5	76,8	
		β Scorpionis	32	23	55	76,5	30,132
		ν Scorpionis	32	4	50	76,5	
		σ Scorpionis	38	14	50	76,3	
		Antares	39	7	15	76,3	
		τ Scorpionis	40	55	35	76	
		ζ Ophiuchi	23	17	57,5	76	
		α Triang. Aus.	81	41	20	76	
28	E	*β Leporis*	33	56	30	82	30,130
		κ Leporis	30	59	30	82	
		α Columbæ	47	11	30	81,6	
		β Aurigæ	31	51	50	81,5	
		ζ Canis Maj.	43	1	5	81,5	30,132
		Canopus	65	36	40	81,3	
		ν Navis	56	3	45	81,3	
		ε Canis Maj.	41	45	42,5	81	30,135
		δ Canis Maj.	39	9	2,5	81	
		γ Leporis	35	32	20	81,5	30,130
		δ Leporis	33	55	50	81,5	
		β Centauri	72	30	20	78,3	30,150
		θ Centauri	48	30	40	78,3	
		κ Draconis	52	9	25	78	
		λ Virginis	25	35	30	77,8	
		η Centauri	54	23	50	77,8	30,152
		ϱ κ Centauri	73	5	45	77,5	
		α Lupi	59	38	5	77,5	
		ε Libræ	28	20	20	77,3	30,154
		β Lupi	55	25	50	77,2	
		γ Scorpionis	37	36	50	77,2	
		γ Triang. Aus.	80	57	55	77	30,152
		β Libræ	21	45	57,5	76,6	30,155
		δ Lupi	53	0	55	76,2	30,158
		γ Lupi	53	24	0	76,2	
		γ Libræ	27	13	50	76	
		β Triang. Aus.	75	51	17,5	76	
		ε Scorpionis	41	42	55	75,7	
		π Scorpionis	38	37	50	75,5	
		δ Scorpionis	35	8	40	75,1	
		β Scorpionis	32	20	37,5	75,1	30,160
		ν Scorpionis	32	1	20	75	
		σ Scorpionis	38	11	15	74,5	
		Antares	39	3	15	74,5	
		τ Scorpionis	40	51	52,5	74	
		ζ Ophiuchi	23	14	10	74	
29	W	*Capella*	32	42	5	82	30,135
		Rigel	21	30	10	82	
		β Leporis	33	59	42,5	81,7	30,138
		κ Leporis	31	2	40	81,4	
		β Dorad.	75	39	22,5	81,4	
		α Columbæ	47	16	5	81,2	30,140
		γ Leporis	35	36	30	81	
		δ Leporis	33	59	32,5	80,7	
		β Aurigæ	31	49	5	80,7	
		ζ Canis Maj.	43	4	25	80,6	
		Canopus	65	39	55	80,5	30,145
		ν Navis	56	7	35	80,3	30,150
		Sirius	29	34	30	80,3	
		ε Canis Maj.	41	49	37,5	80	30,165
		δ Canis Maj.	39	12	25	80	
		θ Centauri	48	35	5	78,2	30,145
		κ Draconis	52	5	30	78	
		λ Virginis	25	39	0	77,8	30,147
		η Centauri	54	27	25	77,3	
		ϱ κ Centauri	73	9	5	77	
		α Lupi	59	41	22,5	76,8	30,148
		ε Libræ	28	23	20	76,4	
		β Lupi	55	29	40	76	

1824. Month.	Face.	Names.	Observed Zenith Distances. d.	m.	s.	Thermometer. d.	Barometer. Inches.
February 29	W	γ *Scorpionis* . . .	37	39	50	75,9	30,149
		β *Trion.*	27	58	40	75,4	
		γ *Triang. Aus.* . . .	81	0	55	75	
		β *Libræ*	21	49	15	75	30,150
		δ *Lupi*	53	4	40	74,5	
		γ *Lupi*	53	38	50	74,5	
		γ *Libræ*	27	17	15	74,2	30,151
		β *Triang. Aus.* . . .	75	54	15	73,9	
		ϱ *Scorpionis* . . .	41	46	20	73,7	
		π *Scorpionis* . . .	38	40	50	73,5	30,152
		δ *Scorpionis* . . .	35	12	0	73,4	
		β *Scorpionis* . . .	32	23	57,5	73,3	
		ν *Scorpionis* . . .	32	4	42,5	73	
		σ *Scorpionis* . . .	38	14	40	73	30,153
		Antares	39	7	20	72,7	
		τ *Scorpionis* . . .	40	55	25	72,7	30,154
		ζ *Ophiuchi* . . .	23	17	40	72,5	30,155
		α *Triang. Aus.* . . .	81	40	30	72	
March 1	E	ζ *Canis Maj.* . . .	43	1	15	81	30,175
		Canopus	65	36	30	81	
		ν *Navis*	26	3	55	81	
		Sirius	29	30	57,5	80,9	30,205
		ε *Canis Maj.* . . .	41	46	2,5	80,8	
		δ *Canis Maj.* . . .	39	9	20	80,8	
		λ *Virginis*	25	35	45	72	30,180
		η *Centauri*	54	23	35	72	
		α *Centauri*	73	5	40	71,8	30,185
		α *Lupi*	59	38	20	71,8	
		α *Libræ*	28	20	25	71,5	30,190
		β *Lupi*	55	26	0	71,5	
		γ *Scorpionis* . . .	37	37	2,5	71,3	30,195
		β *Trion.*	28	1	35	71,3	
		γ *Triang. Aus.* . . .	80	58	10	71	30,200
		β *Libræ*	21	46	0	71	
		δ *Lupi*	53	0	50	71	
		γ *Lupi*	53	34	52,5	71,3	30,205
		γ *Libræ*	27	13	50	71,3	
		β *Triang. Aus.* . . .	75	51	0	71,3	
		ϱ *Scorpionis* . . .	41	42	45	71,3	
		π *Scorpionis* . . .	38	27	45	71,5	30,208
		δ *Scorpionis* . . .	35	8	40	71,5	
		β *Scorpionis* . . .	32	20	37,5	71,5	
		ν *Scorpionis* . . .	32	1	20	71,5	
		σ *Scorpionis* . . .	38	11	42,5	71,5	
		Antares	39	3	20	71,5	30,210
		τ *Scorpionis* . . .	40	52	15	71,5	
		ζ *Ophiuchi* . . .	23	14	20	71,5	
		α *Triang. Aus.* . . .	81	37	47,5	71,5	
2	W	*Canopus*	65	40	0	82	
		ν *Navis*	56	7	45	81,5	
		ε *Canis Maj.* . . .	41	49	30	81	30,220
		π *Navis*	49	52	30	80	30,225
		η *Centauri*	54	27	37,5	71,2	30,195
2		α *Centauri* . . .	73	9	15	71,2	
		α *Lupi*	59	41	40	71	30,197
		α *Libræ*	28	23	50	70,9	
		β *Lupi*	55	29	45	70,9	30,198
		γ *Scorpionis* . . .	37	39	30	70,9	
		β *Trion.*	27	58	20	70,6	30,200
		γ *Triang. Aus.* . . .	81	1	5	70,6	
		β *Libræ*	21	49	25	70,6	
		δ *Lupi*	53	4	55	70,6	
		γ *Lupi*	53	38	55	70,5	
		γ *Libræ*	27	17	30	70,5	
		β *Triang. Aus.* . . .	75	54	40	70,4	30,202
		ϱ *Scorpionis* . . .	41	46	40	70,4	
		π *Scorpionis* . . .	38	41	5	70,2	30,205
		δ *Scorpionis* . . .	35	12	0	70,2	
		β *Scorpionis* . . .	32	24	10	70,2	
		σ *Scorpionis* . . .	38	15	20	70,2	
		Antares	39	7	5	70	30,213
		τ *Scorpionis* . . .	40	55	20	70	30,215

1824. Month.		Face.	Names.	Observed Zenith Distances. d.	m.	s.	Thermometer. d.	Barometer. Inches.
March	2	W	*α Triang. Aus.*	81	40	45	69,7	30,220
			ε Scorpionis	47	2	55	69,7	
			ν Scorpionis	32	4	40	70,2	30,205
	3	E	*Canopus*	65	36	40	82,5	30,230
			ν Navis	56	3	35	82	
			ε Canis Maj.	41	45	52,5	81,5	
			π Navis	49	48	30	81	30,235
			η Canis Maj.	41	59	35	80,7	
			η Centauri	54	23	20	72,5	30,195
			α Centauri	73	5	50	72,5	
			κ Lupi	59	38	40	72,5	
			α Libræ	28	20	35	72	30,197
			β Lupi	55	25	0	72	
			γ Scorpionis	37	36	50	72	
			β Trion.	28	1	45	71,7	30,200
			γ Triang. Aus.	80	58	10	71,7	
			β Libræ	21	45	55	71,5	
			δ Lupi	53	0	40	71,5	
			γ Lupi	53	35	5	71,2	
			γ Libræ	27	13	55	71	
			β Triang. Aus.	75	51	5	71	
			ρ Scorpionis	41	42	35	71	
			π Scorpionis	38	38	0	71	
			δ Scorpionis	35	8	45	71,2	
			β Scorpionis	32	20	35	71,2	
			ν Scorpionis	32	1	32,5	71,2	
			σ Scorpionis	38	11	10	71,2	
			Antares	39	3	25	71,2	
			τ Scorpionis	40	52	5	71,3	
			κ Triang. Aus.	81	37	45	71,3	
			ε Scorpionis	46	59	10	71,3	
			μ Scorpionis	50	44	45	71,3	
	4	W	*β Leporis*	33	59	47,5	83,3	30,175
			ν Navis	56	7	37,5	82,5	30,180
			ε Canis Maj.	41	49	45	82,2	30,185
			π Navis	49	52	20	82	30,190
			η Canis Maj.	42	3	15	82	30,200
			γ Triang. Aus.	81	0	40	74,5	30,155
			β Libræ	21	49	10	74,5	
			δ Lupi	53	4	30	74,2	
			γ Lupi	53	38	30	74,2	30,156
			γ Libræ	27	17	25	74,0	
			β Triang. Aus.	75	54	30	74,0	
			ρ Scorpionis	41	46	45	73,8	30,157
			π Scorpionis	38	41	0	73,8	
			δ Scorpionis	35	12	15	73,7	30,158
			β Scorpionis	32	24	20	73,7	
			ν Scorpionis	32	4	55	73,7	
			σ Scorpionis	38	15	0	73,6	
			Antares	39	7	25	73,6	
			τ Scorpionis	40	55	50	73,6	
			α Triang Aus.	81	40	55	73,5	30,160
			ε Scorpionis	47	2	30	73,5	
			ζ Scorpionis	55	7	45	73,5	
	5	E	*β Leporis*	33	56	35	83	30,140
			ν Navis	56	3	47,5	82,5	30,142
			ε Canis Maj.	41	45	50	82,3	
			π Navis	49	48	30	81,9	30,145
			η Canis Maj.	41	59	50	81,6	
			β Scorpionis	32	20	37,5	74,7	30,125
			ν Scorpionis	32	1	45	74,7	
			σ Scorpionis	38	11	20	74,7	
			Antares	39	3	30	74,7	
			τ Scorpionis	40	52	15	74,5	30,126
			α Triang. Aus.	81	37	42,5	74,5	
			ε Scorpionis	46	59	20	74,4	30,127
			μ Scorpionis	50	45	22,5	74,4	
			ε Herculis	18	8	5	74,4	
	6	W	☉ *U. L.*	18	28	15	86,7	30,155
			Capella	32	42	17,5	82	30,110
			β Tauri	15	20	50	81,7	
			β Leporis	33	59	32,5	81,5	30,112

1824. Month.	Face.	Names.	Observed Zenith Distances. d.	m.	s.	Thermometer. d.	Barometer. Inches.
March 6	W	*α Leporis*	31	2	20	81,5	30.112
		γ Leporis	35	36	15	81,3	30,115
		η Castoris	9	26	30	81	
		ζ Canis Maj.	43	4	32,5	81	
		β Canis Maj.	30	58	0	81	
		Canopus	65	40	10	80.5	30,125
		ν Navis	56	7	50	80.5	
		Sirius	29	34	25	80.3	30,130
		ε Canis Maj.	41	49	30	80,3	
		δ Canis Maj.	39	12	15	80,1	30,132
		π Navis	49	52	20	80,1	
		η Canis Maj.	42	3	10	80	30,135
		Castor	19	10	5	80	
		Procyon	7	25	50	80	
		Pollux	15	20	5	80	
		β Libræ	21	49	30	74	30,120
		λ Lupi	53	4	20	74	
		ε Scorpionis	41	46	55	73,8	30,122
		π Scorpionis	38	40	55	73,8	
		δ Scorpionis	35	11	50	73,6	30,125
		β Scorpionis	32	24	30	73.6	
		ν Scorpionis	32	5	15	73.5	
		σ Scorpionis	38	15	5	73,5	
		Antares	39	7	2	73,5	
		τ Scorpionis	40	55	40	73,5	30,128
		ζ Ophiuchi	23	17	55	73,5	
		α Triang. Aus.	81	40	50	73,5	
		ξ Scorpionis	55	7	30	73,5	30,130
		ε Herculis	71	55	42,5	73,5	
		γ Lupi	53	38	20	74	30,120
7	E	*Capella*	32	45	30	82,2	30,124
		β Tauri	15	24	30	82,2	
		β Leporis	33	56	50	82	30,132
		α Leporis	30	59	37,5	81,8	
		γ Leporis	35	32	47,5	81,7	30,135
		η Castoris	9	30	2,5	81,4	30,138
		ζ Canis Maj.	43	0	50	81,2	
		β Canis Maj.	30	54	27,5	81,1	30,140
		Canopus	65	36	50	81,0	
		ν Navis	56	8	55	80,6	30,145
		Sirius	29	30	50	80,5	30,150
		ε Canis Maj.	41	46	10	80,5	
		δ Canis Maj.	39	9	30	80,3	30,152
		π Navis	49	48	50	80,3	
		η Canis Maj.	42	0	0	80	30,155
		Castor	19	13	0	80	
		Pollux	15	23	20	79.7	30,158
		γ Lupi	53	35	10	73,2	30,160
		γ Libræ	27	14	10	73,2	
		ε Scorpionis	41	42	45	73.0	30,161
		π Scorpionis	38	37	40	73.0	
		δ Scorpionis	35	9	2,5	72,8	30,162
		β Scorpionis	32	20	50	72,8	
		ν Scorpionis	32	1	45	72,8	
		ε Scorpionis	38	11	5	72,8	
		Antares	39	3	45	72,8	
		τ Scorpionis	40	52	10	72,7	30,164
		ζ Ophiuchi	23	14	20	72,7	
		α Triang. Aus.	81	37	50	72,7	
		ε Scorpionis	46	59	25	72,6	30,165
		μ Scorpionis	50	46	0	72,6	
		ζ Scorpionis	55	4	10	72,5	
8	W	*β Tauri*	15	20	35	82,9	30,170
		β Leporis	33	59	42,5	82,7	30,172
		β Dorad.	75	38	55	82,7	
		η Castoris	9	27	5	82,2	30,174
		Castor	19	10	2,5	81,5	30,178
		Pollux	15	20	17,5	81,2	30,180
		β Scorpionis	32	24	10	75,3	30,175
		ν Scorpionis	32	5	5	75	
		σ Scorpionis	38	14	50	74,9	30,180
		τ Scorpionis	40	55	25	74,5	

1824. Month.	Face.	Names.	Observed Zenith Distances.	Thermometer.	Barometer.
			d. m. s.	d.	Inches.
March 8	W	ζ *Ophiuchi* . . .	28 17 50	74,5	30,180
		Sirius	29 34 25	82	30,175
		α *Triang. Aus.* . . .	81 41 10	74,5	30,180
		ζ *Scorpionis* . . .	55 7 50	74	30,182
		ε *Herculis*	71 55 15	73,8	30,185
		η *Scorpionis* . . .	56 4 10	73,6	
	E	β *Tauri*	15 24 5	83	30,155
		β *Leporis*	38 56 25	82,8	
		β *Dorad.*	75 35 50	82.5	30,160
		γ *Leporis*	35 32 50	82,5	
		δ *Leporis*	33 56 0	82,5	
		η *Castoris*	9 30 0	81,9	30,165
		β *Canis Maj.* . . .	30 54 32,5	81,8	
		Canopus	65 36 50	81,6	
		Sirius	29 31 10	81,3	30,170
		ζ *Pollucis*	7 47 20	81,3	
		δ *Pollucis*	9 15 50	81	30,175
		η *Canis Maj.* . . .	41 59 50	81	
		Castor	19 13 10	80,7	
		Pollux	15 23 45	80,5	
		κ *Serpentis* . . .	6 3 35	75	30,170
		β *Triang. Aus.* . . .	75 51 30	74,6	
		ϱ *Scorpionis* . . .	41 42 50	74,6	
		π *Scorpionis* . . .	38 37 40	74,6	
		δ *Scorpionis* . . .	35 8 45	74,5	
		σ *Scorpionis* . . .	38 11 10	74,4	
		γ *Herculis* . . .	6 31 30	74,2	
		τ *Scorpionis* . . .	40 51 50	74	30,172
		ζ *Ophiuchi* . . .	23 14 30	73,6	
		α *Triang. Aus.* . . .	81 37 45	73,6	
		ε *Scorpionis* . . .	46 59 20	73,5	
		ε *Herculis*	18 8 30	73	30,175
		η *Scorpionis* . . .	56 0 27,5	72,8	
		ζ *Scorpionis* . . .	55 3 50	73,3	
10	W	β *Tauri*	15 20 40	83	30,155
		β *Leporis*	33 59 50	82,5	
		η *Castoris*	9 26 55	82	30,160
		β *Canis Maj.* . . .	30 58 25	82	
		Canopus	65 40 20	81,8	
		Sirius	29 34 12,5	80,5	30,162
		ζ *Pollucis*	7 42 45	81,2	
		η *Canis Maj.* . . .	42 3 25	81,2	30,165
		Castor	19 9 57,5	80,8	
		Pollux	15 20 20	80,5	
		γ *Herculis*	6 28 10	74	30,160
		Antares	29 7 20	73,8	
		τ *Scorpionis* . . .	40 55 42,5	73,5	
		ζ *Scorpionis* . . .	55 7 45	73,2	
		η *Scorpionis* . . .	56 4 5	73	
11	E	β *Tauri*	15 24 18	83,5	30,145
		η *Castoris*	9 29 55	83	
		β *Canis Maj.* . . .	30 54 30	82,7	30,147
		Canopus	65 36 45	82,5	30,148
		γ *Pollucis*	3 29 40	82,3	30,149
		Sirius	29 30 50	82	30,150
		ζ *Pollucis*	7 46 47,5	81,8	
		δ *Pollucis*	9 15 20	81,7	30,152
		η *Canis Maj.* . . .	41 59 45	81,5	
		Castor	19 13 10	81,3	30,153
		Pollux	15 23 40	81	30,155
		β *Scorpionis* . . .	32 20 47,5	74,2	
		ν *Scorpionis* . . .	32 1 45	74,2	30,155
		σ *Scorpionis* . . .	38 11 25	74,1	30,156
		γ *Herculis* . . .	6 31 15	74	
		Antares	29 3 30	74	
		τ *Scorpionis* . . .	40 51 50	73,8	30,157
		ζ *Ophiuchi* . . .	23 13 55	73,8	
		κ *Triang. Aus.* . . .	81 37 55	73,8	
		ε *Scorpionis* . . .	46 59 22,5	73,7	
		μ *Scorpionis* . . .	50 45 25	73,7	30,158
		ε *Herculis*	18 8 45	73,7	
		η *Scorpionis* . . .	56 0 25	73,6	

1824. Month.		Face.	Names.	Observed Zenith Distances. d.	m.	s.	Thermometer. d.	Barometer. Inches.
March	11	E	α *Herculis*	1	32	57,5	73,5	30,158
			δ *Herculis*	11	59	40	73,3	
			θ *Ophiuchi* . . .	37	50	37,5	73,1	30,160
			α *Arœ*	62	43	50	73	
			λ *Scorpionis* . . .	49	59	20	73	
			ε *Ophiuchi* . . .	0	20	55	72,7	
	12	W	η *Castoris*	9	27	5	83	30,145
			β *Canis Maj.* . . .	30	58	30	82,8	
			Canopus	65	40	15	82,5	
			γ *Pollucis*	3	26	35	82,2	
			Sirius	29	34	20	82	
			η *Canis Maj.* . . .	42	3	10	82	
			Castor	19	9	50	81,9	30,150
			Pollux	15	20	27,5	81,8	30,155
			ζ *Navis*	52	36	5	81,5	30,160
			γ *Navis*	59	53	37,5	81,5	30,165
			β *Cancri*	3	22	37,5	81,5	30,170
			β *Triang. Aus.* . . .	75	55	0	75	30,160
			β *Scorpionis* . . .	41	47	10	74,8	
			π *Scorpionis* . . .	38	41	20	74,8	30,158
			β *Scorpionis* . . .	32	24	25	74,6	
			ν *Scorpionis* . . .	32	5	10	74,5	
			σ *Scorpionis* . . .	38	14	50	74,3	30,155
			γ *Herculis* . . .	6	27	57,5	74,1	
			Antares	39	7	15	74,1	
			τ *Scorpionis* . . .	40	55	37,5	74	
			ζ *Ophiuchi* . . .	23	17	40	73,9	30,154
			ε *Scorpionis* . . .	47	2	55	73,8	
			α *Herculis*	1	29	45	73,7	30,153
			δ *Herculis* . . .	11	56	32,5	73,7	
			θ *Ophiuchi* . . .	37	54	15	73,5	30,152
			α *Arœ*	62	47	40	73,5	30,150
			λ *Scorpionis* . . .	50	2	55	73,3	
			α *Ophiuchi* . . .	0	24	30	73,2	
	13	E	β *Tauri*	15	24	25	84,5	30,130
			η *Castoris*	9	30	10	83,7	30,133
			β *Canis Maj.* . . .	30	54	32,5	83,5	
			Canopus	65	36	40	83,2	30,135
			γ *Pollucis*	3	29	47,5	82,8	
			Sirius	29	30	55	82,4	30,136
			ζ *Pollucis*	7	46	40	82,2	
			δ *Pollucis*	9	15	20	82	30,138
			η *Canis Maj.* . . .	41	59	30	81,8	
			Castor	19	13	5	81,6	
			Pollux	15	23	55	81,2	30,140
			ζ *Navis*	52	31	47,5	81	30,143
			γ *Navis*	59	50	22,5	81	
			β *Cancri*	3	19	30	81	
			ν *Navis*	32	1	40	72	30,116
			σ *Scorpionis* . . .	38	11	15	71	
			τ *Scorpionis* . . .	40	51	45	71,9	30,117
			γ *Herculis* . . .	6	31	25	71,8	
			Antares	39	3	35	71,8	30,118
			ζ *Ophiuchi* . . .	23	14	25	71,5	
			α *Triang. Aus.* . . .	81	37	57,5	71,2	30,119
			ε *Scorpionis* . . .	46	59	12,5	71	
			μ *Scorpionis* . . .	50	45	15	70,8	30,120
			ζ *Scorpionis* . . .	55	3	50	70,5	
			ε *Herculis* . . .	18	8	47,5	70,5	
			η *Scorpionis* . . .	56	0	27,5	70,5	
			α *Herculis*	1	32	45	70,4	30,121
			δ *Herculis* . . .	11	59	40	70,2	30,122
			θ *Ophiuchi* . . .	37	50	35	70	
			α *Arœ*	62	43	50	70	
			λ *Scorpionis* . . .	49	59	15	70	
	14	W	*Rigel*	21	30	25	84	30,065
			η *Castoris*	9	26	57,5	83,5	30,068
			β *Canis Maj.* . . .	30	58	15	83,3	30,070
			Canopus	65	40	10	83	
			γ *Pollucis*	3	26	45	82,5	
			Sirius	29	34	25	82,5	
			ζ *Pollucis*	7	42	50	82	30,072

1824. Month.	Face.	Names.	Observed Zenith Distances. d.	m.	s.	Thermometer. d.	Barometer. Inches.
March 14	W	β *Pollucis*	9	11	40	81.8	30,072
		η *Canis Maj.*	42	3	20	81,8	
		Castor	19	9	40	81	30,075
		Procyon	7	26	0	81	
		Pollux	15	20	25	81	
		ζ *Navis*	52	35	50	80.8	30,100
		γ *Navis*	59	54	22,5	80.8	
		β *Cancri*	3	22	45	80,8	
		π *Scorpionis*	38	41	0	74	30,065
		δ *Scorpionis*	35	12	20	74	30,070
		β *Scorpionis*	32	24	10	73,8	
		Antares	39	7	10	73,6	
		τ *Scorpionis*	40	55	40	73,4	30,072
		ζ *Ophiuchi*	23	17	50	73,1	
		ζ *Scorpionis*	55	7	35	73	
		ε *Herculis*	18	4	30	72,5	30,075
		δ *Herculis*	11	56	25	72,2	30,080
		η *Scorpionis*	56	4	20	72,2	30,075
		α *Herculis*	1	29	52,5	72,2	
		θ *Ophiuchi*	37	54	2,5	72,1	30,080
		α *Aræ*	62	47	40	72,1	30,085
		λ *Scorpionis*	50	2	40	72,1	
		θ *Scorpionis*	55	57	0	72	30,090
		α *Ophiuchi*	0	24	25	72	
		κ *Scorpionis*	52	0	12,5	72	
15	E	*Rigel*	21	27	5	83	30,025
		η *Castoris*	9	30	2,5	82,1	
		β *Canis Maj.*	30	54	45	82	
		Canopus	65	36	50	82	30,030
		γ *Pollucis*	3	29	55	81,9	30,032
		Sirius	29	31	5	81,8	30,035
		β *Pollucis*	9	15	30	81,5	30,040
		η *Canis Maj.*	42	0	5	81	
		Castor	19	13	15	80,6	30,042
		Procyon	7	52	7,5	80,4	
		Pollux	15	23	55	80,2	30,045
		ζ *Navis*	52	31	40	80,2	
		γ *Navis*	59	50	55	80,2	30,040
		β *Cancri*	3	19	25	80,2	
		δ *Scorpionis*	35	8	55	73,5	30,055
		β *Scorpionis*	32	20	45	73,5	
		ν *Scorpionis*	32	1	50	73	30,056
		σ *Scorpionis*	38	11	25	73	
		γ *Herculis*	6	30	55	72,8	30,058
		Antares	39	3	37,5	72,5	
		τ *Scorpionis*	40	52	10	72,2	
		ζ *Ophiuchi*	23	14	20	72	30,060
		α *Triang. Aus.*	81	37	52,5	71,8	
		ε *Scorpionis*	46	59	20	71,8	
		μ. *Scorpionis*	50	45	35	71,8	
		ζ *Scorpionis*	55	3	35	71,5	
		ε *Herculis*	18	8	42,5	71,5	
		η *Scorpionis*	56	0	25	71,5	
		α *Herculis*	1	32	40	71,3	30,063
		δ *Herculis*	11	59	55	71,3	
		θ *Ophiuchi*	37	50	40	71,2	
		α *Aræ*	62	43	35	71,2	30,064
		λ *Scorpionis*	49	59	0	71,1	
		θ *Scorpionis*	55	53	2,5	71,1	30,065
		α *Ophiuchi*	0	21	5	71	
		κ *Scorpionis*	51	56	45	71	
16	W	*Rigel*	21	30	17,5	84	30,015
		α *Orionis*	5	44	10	82,5	30,020
		η *Castoris*	9	27	0	82,2	
		ζ *Canis Maj.*	43	4	40	82	
		β *Canis Maj.*	30	58	25	81,9	30,025
		Canopus	65	40	17,5	81,9	
		γ *Pollucis*	3	26	52,5	81,6	
		ν *Navis*	56	7	47,5	81,5	
		Sirius	29	34	40	81,4	30,030
		α *Canis Maj.*	41	49	42,5	81,3	
		β *Canis Maj.*	39	12	25	81,3	

1824. Month.		Face.	Names.	Observed Zenith Distances. d.	m.	s.	Thermometer. d.	Barometer. Inches.
March	16	W	δ *Pollucis*	9	11	45	81,1	30,035
			π *Navis*	49	52	22,5	81,1	
			β *Canis Min.* . . .	4	28	2,5	81	30,035
			Castor	19	9	57,5	81	
			Procyon . . .	7	26	5	81	
			Pollux	15	20	27,5	81	
			ζ *Navis*	52	35	57,5	80,9	30,040
			γ *Navis*	59	54	10	80,8	
			β *Cancri*	3	22	35	80,8	
			ε *Navis*	72	0	7,5	80,8	
			β *Scorpionis* . . .	32	24	32,5	76,2	30,035
			ϵ *Scorpionis* . . .	38	14	50	76	
			γ *Herculis* . . .	6	28	10	75,7	
			Antares	39	7	15	75,2	
			τ *Scorpionis* . . .	40	55	37,5	75	30,040
			ζ *Ophiuchi* . . .	23	18	2,5	74,8	
			α *Triang. Aus.* . . .	81	40	45	74,2	
			ε *Scorpionis* . . .	47	2	57,5	74,2	30,042
			μ *Scorpionis* . . .	50	49	7,5	74	
			ζ *Scorpionis* . . .	55	7	55	73,9	
			ε *Herculis*	18	5	5	73,8	30,045
			η *Scorpionis* . . .	56	4	30	73,8	
			α *Herculis* . . .	1	29	47,5	73,6	
			δ *Herculis* . . .	11	56	12,5	73,6	
			θ *Ophiuchi* . . .	37	54	5	73,5	
			α *Arœ*	62	47	30	73,5	30,047
			λ *Scorpionis* . . .	50	2	47,5	73,2	
			θ *Scorpionis* . . .	55	57	0	73,2	30,050
			κ *Ophiuchi* . . .	0	24	32,5	73	
			κ *Scorpionis* . . .	52	0	5	73	
			ι *Scorpionis* . . .	53	7	55	73	
	17	E	*Rigel*	21	27	20	85	30,045
			α *Orionis*	5	40	27,5	84	
			η *Castoris*	9	30	2,5	84	30,050
			ζ *Canis Maj.* . . .	43	1	0	83,8	
			β *Canis Maj.* . . .	30	55	2,5	83,8	
			Canopus	65	36	42,5	83,6	30,053
			γ *Pollucis*	3	29	42,5	83,6	
			ν *Navis*	56	3	47,5	83,6	
			Sirius	29	31	15	83,4	
			ε *Canis Maj.* . . .	41	46	0	83,4	30,055
			ζ *Pollucis* . . .	7	46	40	83,2	
			δ *Canis Maj.* . . .	39	9	0	83,2	
			π *Navis*	49	48	40	83	30,060
			β *Canis Min.* . . .	4	24	35	83	30,062
			Castor	19	13	7,5	82,9	
			Procyon . . .	7	22	15	82,9	
			Pollux	15	23	50	82,8	
			ζ *Navis*	52	31	50	82,8	30,065
			γ *Navis*	59	50	30	82,7	
			β *Cancri*	3	19	30	82,7	
			ε *Navis*	71	56	40	82,7	30,070
			ν *Scorpionis* . . .	32	2	5	78	30,075
			σ *Scorpionis* . . .	38	11	20	78	
			γ *Herculis* . . .	6	31	7,5	78	
			Antares	39	3	35	77,7	
			τ *Scorpionis* . . .	40	52	15	77,7	
			ζ *Ophiuchi* . . .	23	14	17,5	77,5	30,078
			ε *Scorpionis* . . .	46	59	5	77,5	
			ζ *Scorpionis* . . .	55	3	35	77,5	
			ε *Herculis*	18	8	35	77	30,080
			η *Scorpionis* . . .	56	0	27,5	77	
			α *Herculis*	1	32	52,5	77	
			δ *Herculis*	11	59	52,5	77	
			θ *Ophiuchi* . . .	37	50	40	76,8	
			α *Arœ*	62	43	30	76,8	
			λ *Scorpionis* . . .	49	59	10	76,8	
			θ *Scorpionis* . . .	55	52	55	76,5	
			κ *Ophiuchi* . . .	0	21	10	76,5	
			κ *Scorpionis* . . .	51	56	47,5	76,5	30,085
			ι *Scorpionis* . . .	53	3	25	76,5	
			μ *Herculis* . . .	14	47	0	76,5	

1824. Month.		Face.	Names.	Observed Zenith Distances d.	m.	s.	Thermometer. d.	Barometer. Inches.
March	18	W	☉ *L. L.*	14	18	15	90	30,195
			Rigel	21	30	7,5	85,2	30,055
			α *Orionis*	5	43	55	84	30,040
			η *Castoris*	9	27	20	84	
			ζ *Canis Maj.* . . .	43	4	55	84	
			β *Canis Maj.* . . .	30	58	10	83,6	30,041
			Canopus	65	40	10	83,6	
			γ *Pollucis*	3	26	50	83,5	
			ν *Navis*	56	7	40	83,5	
			Sirius	29	34	30	83,5	30,042
			ε *Canis Maj.* . . .	41	49	40	83,4	
			δ *Canis Maj.* . . .	39	12	35	83,4	
			δ *Pollucis*	9	11	40	83,4	30,043
			π *Navis*	49	52	15	83,3	
			β *Canis Min.* . . .	4	27	45	83,3	
			Castor	19	9	50	83,3	30,044
			Procyon	7	25	40	83,3	
			Pollux	15	20	30	83	30,045
			ζ *Navis*	52	35	50	83	
			γ *Navis*	59	53	55	83	30,047
			β *Cancri*	3	22	35	83	
			ε *Navis*	72	0	5	83	30,050
			γ *Scorpionis* . . .	32	5	12,5	79	30,065
			σ *Scorpionis* . . .	38	15	0	79	
			γ *Herculis* . . .	6	28	5	78,8	30,068
			Antares	39	7	35	78,7	
			τ *Scorpionis* . . .	40	55	55	78,7	
			ζ *Ophiuchi* . . .	23	17	42,5	78,5	
			α *Triang. Aus.* . . .	81	40	55	78,5	
			ε *Scorpionis* . . .	47	2	55	78,3	30,069
			λ μ *Scorpionis* . . .	50	49	50	78,3	
			ζ *Scorpionis* . . .	55	8	0	78,3	
			ε *Herculis*	18	5	20	78	30,070
			η *Scorpionis* . . .	56	4	15	78	
			α *Herculis*	0	30	2,5	77,8	30,072
			δ *Herculis*	11	56	40	77,8	
			θ *Ophiuchi* . . .	37	53	37,5	77,7	
			α *Arae*	62	47	25	77,5	
			λ *Scorpionis* . . .	50	2	35	77,5	
			θ *Scorpionis* . . .	55	57	0	77,3	30,074
			κ *Ophiuchi*	0	24	15	77,3	
			κ *Scorpionis* . . .	52	0	7,5	77	30,075
			ι *Scorpionis* . . .	53	7	32,5	77	
			μ *Herculis* . . .	75	16	50	77	
	19	E	☉ *L. L.*	13	50	45	90,2	30,100
			Rigel	21	27	10	85,5	30,080
			α *Orionis*	5	40	30	84,5	
			η *Castoris*	9	29	45	84,2	
			Jupiter (centr.)	10	30	5	84,2	
			ζ *Canis Maj.* . . .	43	1	2,5	84	30,025
			Canopus	65	36	50	84	
			ν *Navis*	56	3	55	83,8	
			Sirius	29	31	7,5	83,5	
			ε *Canis Maj.* . . .	41	46	0	83,5	30,030
			δ *Canis Maj.* . . .	39	9	10	83,4	
			π *Navis*	49	48	52	83,3	30,032
			β *Canis Min.* . . .	4	24	10	83,3	
			Castor	19	13	12,5	83,3	
			Procyon	7	22	15	83,3	
			Pollux	15	23	50	83,2	30,035
			ζ *Navis*	52	32	5	83,2	
			γ *Navis*	59	50	25	83,2	
			β *Cancri*	3	19	25	83,2	
			ε *Navis*	71	57	0	83,2	
			σ *Scorpionis* . . .	38	11	20	78	30,070
			γ *Herculis* . . .	6	31	15	78	
			Antares	39	3	25	77,9	
			τ *Scorpionis* . . .	40	52	5	77,9	30,067
			ζ *Ophiuchi* . . .	23	14	12,5	77,8	
			α *Triang. Aus.* . . .	81	38	12,5	77,8	
			λ μ *Scorpionis* . . .	50	45	15	77,7	30,065
			ζ *Scorpionis* . . .	55	3	50	77,7	

1824. Month.		Face.	Names.	Observed Zenith Distances. d.	m.	s.	Thermometer. d.	Barometer. Inches.
March	19	E	*ε Herculis*	18	8	40	77,6	30,065
			η Ophiuchi . . .	28	31	57,5	77,5	
			κ Herculis	1	33	5	77,5	
			δ Herculis	12	0	0	77,5	
			θ Ophiuchi . . .	37	50	25	77,3	30,063
			ν Scorpionis . . .	50	10	5	77,3	
			λ Scorpionis . . .	49	58	55	77,3	
			θ Scorpionis . . .	55	53	10	77,1	
			ε Ophiuchi . . .	0	21	7,5	77,1	
			κ Scorpionis . . .	51	56	40	77	30,060
			μ Herculis	14	46	55	77	
			θ Herculis	24	13	45	77	
			γ Draconis . . .	38	27	35	77	
			ι Scorpionis . . .	53	3	25	77	
	20	W	⊙ *L. L.*	13	30	28,5	89,3	30,088
			Rigel	21	30	10	85,7	30,090
			η Castoris	9	26	50	84,5	30,095
			Jupiter (centr.) . .	10	27	20	84,4	30,030
			μ Pollucis . . .	9	30	10	84,4	
			Canopus	65	40	10	84,2	
			ε Castoris	12	12	2,5	84	30,033
			Sirius	29	34	25	84	
			ξ Canis Maj. . . .	39	12	50	83,7	30,035
			δ Pollucis	9	11	30	83,7	
			β Canis Min. . . .	4	27	30	83,7	
			Castor	19	10	5	83,5	
			Procyon . . .	7	25	35	83,5	30,040
			ε Canis Maj. . . .	41	49	20	83,5	
			ζ Navis	52	35	40	83,2	
			γ Navis	59	53	47,5	83,2	30,045
			β Caneri	3	22	15	83	
			ε Navis	72	0	0	83	
			γ Herculis	6	28	20	77,5	30,060
			Antares	39	7	20	77,5	
			π Scorpionis . . .	43	55	40	76,9	30,063
			ζ Ophiuchi . . .	23	17	45	76,5	
			α Triang. Aus. . . .	81	41	5	76,9	
			2 *μ Scorpionis* . . .	50	47	15	76,8	30,065
			ζ Scorpionis . . .	55	7	40	76,6	
			ε Herculis . . .	18	4	30	76,5	
			η Ophiuchi . . .	28	35	35	76,5	
			α Herculis . . .	1	29	55	76,3	
			δ Herculis . . .	11	56	25	76	30,068
			θ Ophiuchi . . .	37	53	50	76	
			ν Scorpionis . . .	50	13	10	75,7	
			λ Scorpionis . . .	50	2	40	75,7	
			θ Scorpionis . . .	55	56	57,5	75,7	
			ε Ophiuchi . . .	0	24	17,5	75,6	30,070
			κ Scorpionis . . .	52	0	10	75,5	
			ι Scorpionis . . .	53	7	45	75,3	
			μ Herculis	14	43	5	75	
			γ Draconis . . .	38	25	25	75	
	21	E	⊙ *L. L.*	13	3	0	89,7	30,100
			Rigel	21	27	12,5	85	30,050
			η Castoris	9	29	57,5	83,7	30,055
			Jupiter (centr.) . .	10	30	15	83,7	
			μ Pollucis . . .	9	33	0	83,5	30,058
			Canopus	65	36	55	83	30,060
			ε Castoris	12	14	55	82,8	30,061
			Sirius	29	31	10	82,5	30,065
			ε Canis Maj. . . .	41	45	50	82,5	
			ξ Canis Maj. . . .	39	8	55	82,2	
			δ Pollucis	9	15	25	82,2	
			β Canis Min. . . .	4	24	20	82,2	30,070
			Castor	19	12	57,5	82	
			Procyon . . .	7	22	10	82	
			ζ Navis	52	31	55	81,8	30,072
			γ Navis	59	50	20	81,5	
			β Caneri	3	19	40	81,5	
			ε Navis	71	56	40	81,5	30,075
			2 *μ Scorpionis* . . .	50	43	30	73	
			ζ Scorpionis . . .	55	3	57,5	73	

1824. Month.		Face.	Names.	Observed Zenith Distances. d.	m.	s.	Thermometer. d.	Barometer. Inches.
March	21	E	ε *Herculis*	18	8	20	73	30,075
			η *Ophiuchi* . . .	28	31	57,5	73	
			α *Herculis* . . .	1	33	10	73	
			δ *Herculis*	11	59	57,5	73	
			θ *Ophiuchi* . . .	37	50	37,5	72,8	30,078
			ν *Scorpionis* . . .	50	10	0	72,8	
			λ *Scorpionis* . . .	49	58	55	72,8	30,080
			θ *Scorpionis* . . .	55	53	10	72,8	
			κ *Ophiuchi* . . .	0	21	20	72,8	
			κ *Scorpionis* . . .	51	56	50	72,7	
			ι *Scorpionis* . . .	53	3	22,5	72,5	
			μ *Herculis* . . .	14	47	0	72,5	
			θ *Herculis* . . .	24	13	20	72,5	
			γ *Draconis* . . .	38	27	20	72,5	
	22	W	⊙ *L. L.*	12	42	45	87,5	30,135
			Jupiter (centr.) . .	10	27	5	83,4	30,100
			μ *Pollucis*	9	29	15	83	
			Canopus	65	40	10	82,7	
			ε *Castoris*	12	11	30	82,5	30,090
			ζ *Pollucis*	7	43	15	82,3	
			δ *Canis Maj.* . . .	39	12	25	82,3	
			δ *Pollucis*	9	11	30	82	
			β *Canis Min.* . . .	4	27	40	81,8	30,080
			Castor	19	10	20	81,8	
			Procyon . . .	7	25	40	81,5	
			Pollux	15	20	32,5	81,2	
			Sirius	29	34	32,5	81,2	30,090
			ζ *Navis*	52	35	42,5	81	
			γ *Navis*	59	53	45	80,8	30,100
			β *Caneri*	3	22	12,5	80,5	
			ε *Navis*	72	0	15	80,5	
			2 μ *Scorpionis* . . .	50	47	20	71,5	30,070
			ζ *Scorpionis* . . .	55	7	45	71,5	
			ε *Herculis*	18	5	0	71,5	
			η *Ophiuchi* . . .	28	35	22,5	71,5	30,072
			α *Herculis*	1	29	50	71,3	
			δ *Herculis*	11	56	15	71,3	
			θ *Ophiuchi*	52	6	12,5	71,3	
			ν *Scorpionis* . . .	50	13	25	71,1	30,075
			λ *Scorpionis* . . .	50	2	50	71,1	
			θ *Scorpionis* . . .	55	57	0	71,1	
			α *Ophiuchi* . . .	0	24	27,5	71,1	30,078
			κ *Scorpionis* . . .	52	0	22,5	71	
			ι *Scorpionis* . . .	53	7	25	71	
			μ *Herculis*	14	43	12,5	71	30,080
			θ *Herculis*	24	10	20	71	
			γ *Draconis* . . .	38	23	40	71	
	23	E	⊙ *L. L.*	12	16	5	90,2	30,140
			Jupiter (centr.)	10	30	30	83	30,065
			μ *Pollucis*	9	33	0	83	
			ε *Castoris*	12	15	15	82,8	
			Sirius	29	30	50	82,8	30,068
			ζ *Pollucis*	7	46	30	82,6	
			δ *Canis Maj.* . . .	39	8	50	82,6	
			δ *Pollucis*	9	15	30	82,5	30,070
			γ *Pollucis*	3	29	45	82,5	
			Canopus	65	36	50	82,5	30,072
			β *Canis Min.* . . .	4	24	30	82,5	
			Castor	19	13	5	82,5	
			Procyon . . .	7	22	5	82,5	30,075
			Pollux	15	23	55	82,5	
			2 μ *Scorpionis* . . .	50	43	20	74,7	
			ζ *Scorpionis* . . .	55	3	50	74,7	
			ε *Herculis*	18	8	10	74,6	
			η *Ophiuchi* . . .	28	32	10	74,6	
			α *Herculis*	1	32	55	74,5	
			δ *Herculis*	11	59	45	74,5	
			θ *Ophiuchi* . . .	37	50	32,5	74,5	
			ν *Scorpionis* . . .	50	10	15	74,2	30,072
			λ *Scorpionis* . . .	49	59	5	74,2	
			θ *Scorpionis* . . .	55	53	5	74	
			ζ *Navis*	52	31	50	81,2	30,088

1824. Month.	Face.	Names.	Observed Zenith Distances. d.	m.	s.	Thermometer. d.	Barometer. Inches.
March 23	E	γ *Navis*	59	50	52,5	81	30,088
		β *Cancri*	3	19	30	80,7	30,099
		γ *Asini*	9	2	55	80,6	30,094
		δ *Asini*	5	44	35	80,5	30,097
		δ *Navis*	67	4	27,5	80,3	30,100
		ε *Navis*	71	56	55	80,1	
		α *Ophiuchi*	0	20	50	74	30,070
		κ *Scorpionis*	51	56	50	74	
		ι *Scorpionis*	53	3	37,5	74	
		μ *Herculis*	14	46	55	74	30,072
		θ *Herculis*	24	13	40	74	
		γ *Draconis*	38	27	12,5	74	
24	W	⊙ *L. L.*	11	56	10	88,7	30,120
		Jupiter (centr.)	10	26	0	83,4	30,045
		γ *Pollucis*	3	27	0	83,4	
		ε *Castoris*	12	11	32,5	83,2	
		Sirius	29	24	30	83	
		ζ *Pollucis*	7	43	15	83,8	30,050
		δ *Canis Maj.*	39	12	40	82,6	
		δ *Pollucis*	9	11	35	82,6	
		β *Canis Min.*	4	27	50	82,4	
		Castor	19	9	55	82,2	
		Procyon	7	25	30	82,2	
		Pollux	15	20	52,5	82,2	30,060
		ζ *Navis*	37	24	25	82,2	30,065
		γ *Navis*	30	6	2,5	82,2	30,070
		β *Cancri*	3	22	22,5	82,2	30,080
		ε *Navis*	72	0	0	82,2	30,090
		δ *Navis*	67	8	10	82,2	30,100
		2 μ *Scorpionis*	50	47	20	74	30,055
		ζ *Scorpionis*	55	7	55	74	
		ε *Herculis*	18	5	5	73,9	30,058
		η *Ophiuchi*	28	35	17,5	73,9	
		θ *Ophiuchi*	37	54	2,5	73,8	30,060
		α *Herculis*	1	30	2,5	73,8	
		δ *Herculis*	11	56	35	73,8	30,061
		ν *Scorpionis*	50	13	20	73,7	
		λ *Scorpionis*	50	2	35	73,7	30,062
		θ *Scorpionis*	55	57	2,5	73,6	
		α *Ophiuchi*	0	24	25	73,5	
		κ *Scorpionis*	52	0	20	73,5	30,065
		ι *Scorpionis*	53	7	40	73,8	
		μ *Herculis*	14	43	22,5	73,8	30,068
		η *Herculis*	24	10	20	74	30,070
		γ *Draconis*	38	23	35	74,2	30,075
25	E	⊙ *L. L.*	11	28	47,5	88,8	30,110
		Canopus	65	36	45	83,3	30,028
		γ *Pollucis*	3	29	45	83,1	30,030
		ε *Castoris*	12	15	7,5	82,9	30,040
		Sirius	29	31	2,5	82,5	30,045
		ζ *Pollucis*	7	46	37,5	82,5	
		δ *Canis Maj.*	39	9	0	82,5	30,043
		δ *Pollucis*	9	15	30	82,3	
		β *Canis Min.*	4	24	15	82,3	
		Castor	19	13	0	82,3	30,040
		Procyon	7	22	5	82	
		Pollux	15	23	50	82	
		ζ *Navis*	52	31	47,5	81,6	30,045
		γ *Navis*	59	50	27,5	81,5	
		β *Cancri*	3	19	40	81,5	30,050
		ε *Navis*	71	56	50	81,5	
		γ *Asini*	9	3	5	81,3	30,055
		δ *Asini*	5	44	50	81,3	
		δ *Navis*	67	4	27,5	81	30,060
		2 α *Cancri*	0	20	30	81	
		2 μ *Scorpionis*	50	43	25	74,5	30,035
		ζ *Scorpionis*	55	3	35	74,5	
		ε *Herculis*	18	8	5	74,3	30,036
		η *Scorpionis*	56	0	20	74	
		α *Herculis*	1	32	50	74	30,038
		δ *Herculis*	11	59	47,5	73,7	
		ν *Scorpionis*	50	10	5	73,7	

1824. Month.	Face.	Names.	Observed Zenith Distances. d.	m.	s.	Thermometer. d.	Barometer. Inches.
March 25	E	λ *Scorpionis* . . .	49	59	5	73,5	30,040
		θ *Scorpionis* . . .	55	53	5	73,5	
		κ *Ophiuchi* . . .	0	21	2,5	73,5	
		π *Scorpionis* . . .	51	56	52,5	73,3	30,042
		ι *Scorpionis* . . .	53	3	22,5	73,3	
		γ *Ophiuchi* . . .	10	16	0	73	30,043
		θ *Herculis*	24	13	45	73	
		γ *Draconis* . . .	38	27	30	72,8	30,045
	W	⊙ *L. L.*	11	8	40	88,2	30,125
		Rigel	21	30	10	85,2	30,045
		α *Orionis*	5	43	45	84	
		Canopus	65	40	7,5	83	30,050
		γ *Pollucis*	3	26	50	83	30,055
		ν *Navis*	57	7	40	82,8	30,060
		Sirius	29	34	35	82,8	30,065
		ε *Canis Maj.* . . .	41	50	0	82,5	
		δ *Canis Maj.* . . .	39	12	20	82,5	
		π *Navis*	49	52	15	82,2	30,070
		η *Canis Maj.* . . .	42	3	25	82,2	
		Castor	19	9	55	82	
		Procyon . . .	7	26	0	81,8	30,075
		Pollux	15	20	30	81,7	
		ζ *Navis*	52	35	42,5	81,7	30,078
		γ *Navis*	59	53	30	81,6	
		β *Cancri*	3	22	20	81,5	30,080
		ε *Navis*	72	0	5	81,5	
		γ *Asini*	9	0	0	81,3	30,087
		δ *Asini*	5	41	15	81,1	30,090
		δ *Navis*	67	8	17,5	80,9	
		2 α *Cancri*	0	34	20	80,7	30,094
		κ *Ursæ Maj.* . . .	34	43	55	80,4	30,098
		λ *Navis*	55	48	30	80,4	30,100
		ε *Herculis*	18	5	7,5	74	
		η *Scorpionis* . . .	56	4	22,5	74	
		α *Herculis* . . .	1	29	40	74	
		δ *Herculis* . . .	11	56	2,5	73,8	30,103
		θ *Ophiuchi* . . .	37	54	5	73,8	
		ν *Scorpionis* . . .	50	13	25	73,6	30,105
		λ *Scorpionis* . . .	50	2	37,5	73,6	
		θ *Scorpionis* . . .	55	57	0	73,5	30,107
		α *Ophiuchi* . . .	0	24	25	73,5	
		κ *Scorpionis* . . .	51	59	55	73,4	30,109
		β *Ophiuchi* . . .	8	27	0	73,4	
		γ *Ophiuchi* . . .	10	19	0	73,3	30,110
		θ *Herculis* . . .	24	10	15	73,3	
		γ *Draconis* . . .	38	23	42,5	73,2	
		μ *Sagittarii* . . .	34	10	40	73,2	
		δ *Sagittarii* . . .	42	58	55	73,2	
27	E	⊙ *L. L.*	10	41	42,5	88,2	30,155
		Rigel	21	27	10	86,5	30,100
		α *Orionis*	5	40	30	85,7	30,095
		Canopus	65	36	40	84,5	30,090
		γ *Pollucis*	3	29	32,5	84,5	
		ν *Navis*	56	4	0	84	30,092
		Sirius	29	31	7,5	83,5	30,095
		δ *Canis Maj.* . . .	39	9	2,5	83,3	
		π *Navis*	49	48	55	83	30,098
		η *Canis Maj.* . . .	41	59	50	82,7	
		Castor	19	13	5	82,4	30,100
		Procyon . . .	7	22	20	82,4	
		Pollux	15	23	52,5	82,4	
		ε *Canis Maj.* . . .	41	46	5	82	
		ζ *Navis*	52	31	50	82	
		γ *Navis*	59	50	10	81,6	
		β *Cancri*	3	19	35	81,6	
		ε *Navis*	71	56	50	81,4	30,105
		γ *Asini*	9	3	10	81,4	
		δ *Asini*	5	44	52,5	81,1	30,108
		ζ *Navis*	67	4	15	81,1	
		2 α *Cancri*	0	30	35	80,8	
		κ *Ursæ Maj.* . . .	34	48	2,5	80,5	30,110
		λ *Navis*	55	44	50	80,3	

1824. Month.		Face.	Names.	Observed Zenith Distances. d.	m.	s.	Thermometer. d.	Barometer. Inches.
March	27	E	ε *Herculis*	18	8	20	74	30,085
			η *Scorpionis*	56	0	27,5	74	30,090
			α *Herculis*	1	33	5	74	30,095
			δ *Herculis*	11	59	57,5	73,8	
			β *Ophiuchi*	37	50	30	73,8	30,096
			λ *Scorpionis*	49	59	20	73,5	
			α *Ophiuchi*	55	53	17,5	73,5	30,098
			κ *Scorpionis*	51	56	45	73,5	
			β *Ophiuchi*	8	24	5	73,5	30,100
			γ *Ophiuchi*	10	15	37,5	73,3	
			θ *Herculis*	24	13	40	73,3	30,105
			γ *Draconis*	38	37	30	73,3	
			δ *Sagittarii*	42	34	0	73	30,108
			ε *Sagittarii*	47	28	25	73	30,110
			λ *Sagittarii*	58	31	45	73	
	28	W	⊙ *L. L.*	10	21	27,5	89	30,125
			Rigel	21	30	10	86	30,070
			α *Orionis*	5	43	57,5	85	30,060
			Canopus	65	39	57,5	84,5	30,075
			γ *Pollucis*	3	26	40	84,3	
			Sirius	29	34	25	84	30,080
			ε *Canis Maj.*	41	49	35	83,6	
			δ *Canis Maj.*	39	12	40	83,2	
			π *Navis*	49	52	12,5	82,8	30,085
			η *Canis Maj.*	42	3	20	82,6	
			Castor	19	9	45	82,4	30,088
			Procyon	7	25	45	82,4	
			Pollux	15	20	30	82,4	
			ζ *Navis*	52	35	35	82,1	30,089
			γ *Navis*	59	54	0	82,1	
			β *Cancri*	3	22	30	81,8	30,090
			ε *Navis*	72	0	0	81,6	
			γ *Asini*	8	59	50	81,4	30,095
			δ *Asini*	5	41	25	81,4	
			2 *a Cancri*	0	34	0	81,2	
			κ *Ursæ Maj.*	34	44	10	81	
			λ *Navis*	55	48	50	80,7	30,098
			β *Navis*	81	59	40	80,5	
			κ *Luc. Boreal.*	67	19	47,5	80,3	30,100
			δ *Navis*	67	8	5	80,3	
			ε *Herculis*	71	54	50	76,7	30,055
			η *Scorpionis*	56	4	40	76,7	
			α *Herculis*	1	30	7,5	76,4	
			δ *Herculis*	11	56	20	76,4	30,056
			θ *Ophiuchi*	37	54	0	76	
			λ *Scorpionis*	50	2	40	76	
			θ *Scorpionis*	55	57	5	76	
			α *Ophiuchi*	0	24	37,5	76	
			κ *Scorpionis*	52	0	5	75,8	
			β *Ophiuchi*	8	27	0	75,8	
			γ *Ophiuchi*	10	19	10	75,7	
			θ *Herculis*	24	10	5	75,7	
			γ *Draconis*	38	23	45	75,7	
			μ *Sagittarii*	34	10	40	75,5	30,057
			δ *Sagittarii*	42	58	30	75,5	
			ε *Sagittarii*	47	32	15	75,5	
			λ *Sagittarii*	58	36	10	75,2	
	29	E	⊙ *L. L.*	9	54	50	91,5	30,075
			Rigel	21	27	15	88	30,005
			α *Orionis*	5	40	25	86,5	30,010
			Canopus	65	26	50	85	
			Sirius	29	30	55	84,7	30,000
			ε *Canis Maj.*	41	46	20	84,5	
			δ *Canis Maj.*	39	9	20	84,5	30,002
			π *Navis*	49	48	57,5	84,1	30,004
			η *Canis Maj.*	41	59	55	84	
			Castor	19	13	5	83,6	
			Procyon	7	22	10	83,5	30,008
			ζ *Navis*	52	31	50	83,2	
			γ *Navis*	59	50	25	83	
			β *Cancri*	3	19	20	83	
			ε *Navis*	71	56	40	82,7	30,010

1824. Month.	Face.	Names.	Observed Zenith Distances. d.	m.	s.	Thermometer. d.	Barometer. Inches.
March 29	E	γ *Asini*	9	3	12,5	82,7	30,010
		δ *Asini*	5	44	45	82,3	30,012
		δ *Navis*	67	4	15	82,3	
		2 α *Cancri*	0	30	42,5	82	
		κ *Ursæ Maj.*	34	48	5	82	30,015
		λ *Navis*	55	44	55	81,6	
		κ *Luc. Boreal.*	67	16	12,5	81,5	
		θ *Ursæ Maj.*	39	25	0	81,5	30,016
		β *Navis*	81	56	20	81,5	
		ε *Herculis*	18	8	25	78	30,030
		η *Scorpionis*	56	0	25	77,8	30,039
		α *Herculis*	1	32	50	77,7	30,048
		δ *Herculis*	11	59	50	77,5	30,058
		β *Ophiuchi*	37	50	25	77,4	30,067
		ν *Scorpionis*	50	10	0	77,2	30,076
		λ *Scorpionis*	49	58	57,5	77,1	30,085
		θ *Scorpionis*	55	52	55	77	30,094
		α *Ophiuchi*	0	21	10	76,8	30,103
		β *Ophiuchi*	8	23	45	76,4	30,096
		γ *Ophiuchi*	10	15	27,5	75,9	30,089
		θ *Herculis*	24	13	30	75,4	30,080
		γ *Draconis*	51	32	45	75	30,075
		μ *Sagittarii*	34	7	15	75	30,066
		δ *Sagittarii*	42	55	5	75,3	30,060
		ε *Sagittarii*	47	28	45	75,2	30,053
		λ *Sagittarii*	38	31	45	75,5	30,047
30	W	$\odot$ *L. L.*	9	35	8,75	89	30,040
		Sirius	29	34	10	83,5	30,030
		ε *Canis Maj.*	41	49	37,5	83,3	30,010
		δ *Canis Maj.*	39	12	42,5	83,1	30,020
		π *Navis*	49	52	20	83	30,025
		β *Canis Min.*	4	27	45	82,9	30,030
		Castor	19	9	55	82,7	30,040
		Procyon	7	25	57,5	82,7	
		Pollux	15	20	35	82,7	30,043
		ζ *Navis*	52	35	50	82,6	
		γ *Navis*	59	53	50	82,6	30,044
		β *Cancri*	3	22	25	82,5	30,045
		γ *Asini*	8	59	55	82,5	30,050
		δ *Asini*	5	41	40	82,5	30,060
		2 α *Cancri*	0	33	50	82,4	
		κ *Ursæ Maj.*	34	44	0	82,4	
		λ *Navis*	55	48	35	82,2	30,065
		β *Navis*	81	59	30	82,2	
		ι *Navis*	71	36	15	82,2	30,070
		ϵ *Navis*	72	0	0	82,1	
		κ *Luc. Boreal.*	67	19	45	82,1	30,075
		α *Hydræ*	20	59	47,5	82	
		δ *Ursæ Maj.*	39	21	10	82	30,080
		α *Herculis*	1	30	2,5	75,5	30,015
		ζ *Herculis*	11	56	30	75,5	
		θ *Ophiuchi*	37	54	15	75,4	30,010
		α *Arcæ*	62	47	30	75,4	
		λ *Scorpionis*	50	2	57,5	75,4	30,008
		θ *Scorpionis*	55	57	5	75,3	
		α *Ophiuchi*	0	24	10	75,3	
		κ *Scorpionis*	52	0	5	75,3	30,006
		β *Ophiuchi*	8	27	0	75,3	
		γ *Ophiuchi*	10	19	10	75,2	30,005
		θ *Herculis*	24	10	20	75,2	
		γ *Draconis*	38	53	30	75,2	30,004
		μ *Sagittarii*	34	10	35	75,2	
		δ *Sagittarii*	42	58	32,50	75,2	30,002
		ϵ *Sagittarii*	47	32	0	75,2	30,000
		λ *Sagittarii*	38	35	55	75,2	
31	E	$\odot$ *L. L.*	9	8	22,5	90	30,025
		Sirius	29	31	10	83	29,975
		ε *Canis Maj.*	41	46	10	83	29,970
		δ *Canis Maj.*	39	9	7,5	83,2	29,955
		π *Navis*	49	48	40	83,2	29,958
		β *Canis Min.*	4	24	10	83,4	29,960
		Castor	19	13	12,5	83,5	29,940

1824. Month.		Face.	Names.	Observed Zenith Distances. d.	m.	s.	Thermometer. d.	Barometer. Inches.
March	31	E	*Procyon* . . .	7	52	25	83,5	29,940
			Pollux	15	23	52,5	83,5	
			ζ *Navis*	52	32	5	83,3	29,942
			γ *Navis*	59	50	17,5	83,3	
			β *Cancri*	3	19	22,5	83,3	29,945
			ε *Navis*	71	56	50	83,3	
			γ *Asini*	9	3	0	83,2	29,950
			δ *Asini*	5	44	50	83,2	
			δ *Navis*	37	4	25	83,2	29,955
			2 α *Cancri*	0	30	35	83,1	29,958
			κ *Ursæ Maj.* . . .	34	47	55	83	29,960
			λ *Navis*	55	44	45	83	29,963
			β *Navis*	81	56	27,5	82,9	29,967
			ι *Navis*	71	32	28	82,9	29,970
			κ *Luc. Boreal.* . . .	67	16	22,5	82,9	29,975
			α *Hydræ*	20	56	35	82,7	
			β *Ursæ Maj.* . . .	39	25	22,5	82,7	
			α *Herculis* . . .	1	32	40	76,5	30,000
			δ *Herculis* . . .	12	0	2,5	76,5	
			β *Ophiuchi* . . .	37	50	25	76,3	
			α *Aræ*	62	43	35	76,3	
			λ *Scorpionis* . . .	49	58	57,5	76,3	
			β *Scorpionis* . . .	55	53	25	76	
			α *Ophiuchi* . . .	0	21	15	76	
			κ *Scorpionis* . . .	51	57	0	76	
			β *Ophiuchi* . . .	8	23	30	75,8	
			γ *Ophiuchi* . . .	10	15	40	75,8	
			γ *Draconis* . . .	38	27	25	75,8	
			μ *Sagittarii* . . .	34	7	25	75,6	
			δ *Sagittarii* . . .	42	54	50	75,6	
			ε *Sagittarii* . . .	47	28	50	75,5	
			λ *Sagittarii* . . .	38	31	50	75,5	
April	1	W	⊙ *L. L.*	8	48	42,5	89	30,020
			Sirius	29	34	27,5	83,3	29,918
			ε *Canis Maj.* . . .	41	49	37,5	83,3	29,920
			δ *Canis Maj.* . . .	39	12	20	83	
			π *Navis*	49	52	40	83	29,922
			β *Canis Min.* . . .	4	27	45	82,7	
			Castor	19	10	10	82,7	29,924
			Procyon . . .	7	25	30	82,7	29,925
			Pollux	15	20	30	82,6	
			ζ *Navis*	52	35	35	82,6	
			γ *Navis*	59	54	10	82,5	
			β *Cancri*	3	22	35	82,5	
			ι *Navis*	72	0	10	82,4	29,928
			γ *Asini*	81	0	15	82,4	
			δ *Asini*	5	41	5	82,2	29,930
			δ *Navis*	67	8	20	82,2	
			α *Cancri*	0	33	40	82	
			κ *Ursæ Maj.* . . .	34	43	50	82	
			λ *Navis*	55	48	42,5	81,7	29,934
			β *Navis*	81	59	45	81,7	
			ι *Navis*	71	36	25	81,5	29,936
			κ *Luc. Boreal.* . . .	67	19	45	81,5	
			α *Hydræ*	20	59	42,5	81,4	29,938
			β *Ursæ Maj.* . . .	39	12	42,5	81,4	
			α *Aræ*	62	47	35	81,4	
			λ *Scorpionis* . . .	50	2	45	74,5	29,955
			β *Scorpionis* . . .	55	57	15	74,8	29,952
			α *Ophiuchi* . . .	0	24	30	74,8	
			κ *Scorpionis* . . .	52	0	17,5	74,8	
			β *Ophiuchi* . . .	8	27	0	75	29,950
			γ *Ophiuchi* . . .	10	19	25	75	
	2	E	⊙ *L. L.*	8	52	2,5	89	30,020
			Sirius	29	30	52,5	82,5	29,958
			ε *Canis Maj.* . . .	41	46	7,5	82,5	29,965
			δ *Canis Maj.* . . .	39	9	5	82,5	29,970
			π *Navis*	49	48	50	82,4	29,975
			β *Canis Min.* . . .	4	24	20	82,4	
			Castor	19	13	10	82,3	29,980
			Procyon . . .	7	22	15	82,3	
			Pollux	15	23	55	82,3	

1824. Month.		Face.	Names.	Observed Zenith Distances. d.	m.	s.	Thermometer. d.	Barometer. Inches.
April	2	E	ζ *Navis*	52	31	50	82,1	29,985
			γ *Navis*	59	50	25	82,1	
			β *Cancri*	3	19	35	82,1	
			ε *Navis*	71	56	45	82,1	
			γ *Asini*	9	2	50	82	25,990
			δ *Asini*	5	44	45	82	
			δ *Navis*	67	4	25	82	
			α *Cancri*	0	30	25	82	
			λ *Navis*	55	45	10	82	
			β *Navis*	81	56	15	81,7	29,995
			ι *Navis*	71	32	17,5	81,7	
			κ *Luc. Boreal.*	67	16	10	81,7	
			α *Hydræ*	20	56	20	81,7	30,000
			θ *Ursæ Maj.*	39	25	20	81,7	
			ζ *Serpentis*	16	42	20	73,5	30,005
			γ *Draconis*	38	27	35	73,5	
			μ *Sagittarii*	34	7	20	73,2	
			δ *Sagittarii*	42	54	45	73,2	30,010
			ε *Sagittarii*	47	28	52,5	73,2	
			λ *Sagittarii*	38	31	55	73	30,015
			α *Lyræ*	25	34	25	73	
			Φ *Sagittarii*	40	11	0	73	
	3	W	⊙ *L. L.*	8	2	45	88,5	30,045
			π *Navis*	49	52	30	83	30,000
			Castor	19	9	45	83	
			Procyon	7	26	0	83	
			γ *Navis*	59	54	0	83	
			ε *Navis*	71	59	50	83	
			δ *Navis*	67	8	22	83	
			κ *Ursæ Maj.*	34	44	5	83	
			λ *Navis*	55	48	5	83	
			β *Navis*	81	59	40	83	
			ι *Navis*	71	36	10	83	
			κ *Luc. Boreal.*	67	19	42,5	83	
			α *Hydræ*	20	59	47,5	83	
			θ *Ursæ Maj.*	39	21	35	83	
			o *Leonis*	2	24	25	83	
			μ *Leonis*	13	43	30	83	
			α *Arcæ*	62	47	30	77,5	30,040
			λ *Scorpionis*	50	2	50	77,5	
			θ *Scorpionis*	55	57	15	77,2	
			α *Ophiuchi*	0	24	30	77,2	30,041
			κ *Scorpionis*	52	0	25	77,1	
			β *Ophiuchi*	8	27	0	77	
			γ *Ophiuchi*	10	19	5	77	30,042
			ζ *Serpentis*	16	46	10	76,8	
			γ *Draconis*	38	23	35	76,8	
			μ *Sagittarii*	34	10	50	76,6	30,043
			δ *Sagittarii*	42	58	45	76,4	
			ε *Sagittarii*	47	32	15	76,4	
			λ *Sagittarii*	38	35	45	76,2	30,045
			α *Lyræ*	25	31	55	76,2	
			Φ *Sagittarii*	40	14	45	76	
	4	E	⊙ *L. L.*	7	36	22,5	90,2	30,035
			π *Navis*	49	48	47,5	84	30,015
			β *Canis Min.*	4	24	30	84	30,020
			Castor	19	12	57,5	83,7	30,022
			Procyon	7	22	5	83,7	
			Polluæ	15	23	40	83,7	
			ζ *Navis*	52	32	10	83,5	30,025
			γ *Navis*	59	50	25	83,5	
			ε *Navis*	71	56	47,5	83,5	
			δ *Navis*	67	4	40	83,3	30,028
			κ *Ursæ Maj.*	34	47	55	83,3	
			λ *Navis*	55	45	15	83,3	
			ι *Navis*	71	32	20	83	
			κ *Luc. Boreal.*	67	16	5	83	30,030
			α *Hydræ*	20	56	35	82,8	
			θ *Ursæ Maj.*	39	25	5	82,8	
			o *Leonis*	2	21	40	82,6	
			ε *Leonis*	11	32	5	82,5	30,033
			μ *Leonis*	13	47	5	82,5	30,040

1824. Month.		Face.	Names.	Observed Zenith Distances. d.	m.	s.	Thermometer. d.	Barometer. Inches.
April	5	W	⊙ *L. L.*	7	16	57,5	88,5	30,030
			Castor	19	9	50	84,5	29,955
			Procyon	7	26	0	84,3	29,953
			Pollux	15	20	25	84	29,950
			ζ *Navis*	52	36	10	84	
			γ *Navis*	59	54	10	84	
			ε *Navis*	72	0	10	83,5	29,945
			δ *Navis*	67	8	20	83,5	29,950
			κ *Ursæ Maj.*	34	43	52,5	83,5	29,955
			λ *Navis*	55	49	2,5	83,5	29,963
			β *Navis*	81	59	55	83,5	29,967
			ι *Navis*	71	35	50	83,5	29,970
			κ *Luc. Boreal.*	67	19	37,5	83,5	29,975
			α *Hydræ*	20	59	52,5	83,5	29,980
			θ *Ursæ Maj.*	34	43	52,5	83,5	
			ο *Leonis*	2	24	45	83,5	29,985
			ε *Leonis*	11	28	45	83,5	
			μ *Leonis*	13	43	50	83,5	29,988
			α *Aræ*	62	47	15	78	29,975
			λ *Scorpionis*	50	3	0	78	
			β *Scorpionis*	55	57	15	78	
			κ *Ophiuchi*	0	24	15	77,8	29,980
			ν *Scorpionis*	52	0	17,5	77,8	
			β *Ophiuchi*	8	27	30	77,8	29,982
			γ *Ophiuchi*	10	19	5	77,5	
			ζ *Serpentis*	16	45	45	77,5	29,985
			γ *Draconis*	38	23	50	77,5	
			μ *Sagittarii*	34	11	10	77,7	29,990
			δ *Sagittarii*	42	58	37,5	77,7	
			ε *Sagittarii*	47	32	12,5	77,7	29,995
			λ *Sagittarii*	38	35	35	77	
			α *Lyræ*	25	31	5	77	30,000
			♁ *Sagittarii*	40	15	5	77	
	6	E	⊙ *L. L.*	6	50	55	90,7	30,025
			Castor	19	13	2,5	84	29,968
			Procyon	7	22	20	83,9	29,970
			Pollux	15	28	55	83,8	
			ζ *Navis*	52	32	12,5	83,7	
			γ *Navis*	59	50	25	83,7	29,973
			ε *Navis*	71	56	50	83,6	
			δ *Navis*	67	4	55	83,6	
			κ *Ursæ Maj.*	34	47	42,5	83,5	29,975
			λ *Navis*	55	44	40	83,5	
			ι *Navis*	71	32	15	83,4	
			κ *Luc. Boreal.*	67	16	5	83,4	
			θ *Ursæ Maj.*	39	24	50	83,2	29,978
			ε *Leonis*	13	47	20	83,2	
			μ *Leonis*	13	47	20	83,2	
	7	W	⊙ *L. L.*	6	31	20	90,2	29,998
			Castor	19	9	30	84,2	
			Procyon	7	26	5	84,1	
			Pollux	15	20	22,5	84	
			ζ *Navis*	52	36	20	84	30,000
			γ *Navis*	59	54	15	84	
			ε *Navis*	72	0	7,5	83,7	30,005
			δ *Navis*	67	8	17,5	83,7	
			κ *Ursæ Maj.*	34	43	55	83,7	30,007
			λ *Navis*	55	48	50	83,5	
			ι *Navis*	71	35	57,5	83,5	30,010
			κ *Luc. Boreal.*	67	19	47,5	83,5	
			α *Hydræ*	20	59	55	83,5	
			θ *Ursæ Maj.*	39	21	57,5	83	30,012
			ο *Leonis*	2	24	37,5	83	
			ε *Leonis*	11	28	35	82,8	30,015
			μ *Leonis*	13	43	45	82,5	
			ν *Leonis*	4	30	30	82,5	
	8	E	⊙ *L. L.*	6	5	57,5	91	30,033
			Castor	19	13	10	85	29,955
			Procyon	7	21	50	84,9	29,958
			Pollux	15	24	2,5	84,8	29,960
			ζ *Navis*	52	31	47,5	84,8	
			γ *Navis*	59	50	52,5	84,6	

1824. Month.		Face.	Names.	Observed Zenith Distances d.	m.	s.	Thermometer. d.	Barometer. Inches.
April	8	E	ε *Navis*	71	56	47,5	84,6	29,965
			δ *Navis*	67	4	32,5	84,6	
			κ *Ursæ Maj.*	34	47	55	84,5	29,970
			λ *Navis*	55	44	37,5	84,5	
			β *Navis*	81	56	20	84,5	29,978
			ι *Navis*	71	32	17,5	84,5	
			κ *Luc. Boreal.*	67	16	25	84,4	29,980
			α *Hydræ*	20	56	30	84,4	
			θ *Ursæ Maj.*	39	25	15	84,2	
			ο *Leonis*	2	21	8	84,2	29,990
			ε *Leonis*	11	31	40	84,2	
			μ *Leonis*	13	47	12,5	84,2	29,995
			η *Leonis*	4	34	32,5	84	30,000
			γ *Leonis*	7	40	40	84	
			β *Ursæ Maj.*	44	16	20	84	30,005
			α *Ursæ Maj.*	49	38	55	83,7	30,010
			δ *Leonis*	8	26	30	83,7	
			σ *Leonis*	6	3	5	83,7	
			τ *Leonis*	9	12	42,5	83,6	30,015
			υ *Leonis*	13	53	12,5	83,6	
			β *Leonis*	2	30	36	83,6	30,018
			β *Virginis*	10	17	20	83,5	30,020
			γ *Ursæ Maj.*	41	37	20	83,5	
	9	W	⊙ *L. L.*	5	47	5	90,5	30,045
			Procyon	7	25	35	86	29,958
			Pollux	15	20	22,5	86	
			ζ *Navis*	52	35	50	85,8	29,960
			γ *Navis*	59	54	0	85,8	29,965
			ε *Navis*	72	0	5	85,8	29,970
			δ *Navis*	67	8	10	85,6	29,972
			κ *Ursæ Maj.*	34	44	0	85,6	29,975
			λ *Navis*	55	48	35	85,4	29,980
			β *Navis*	81	59	50	85,4	29,985
			ι *Navis*	71	36	10	85,3	29,987
			κ *Luc. Boreal.*	67	19	50	85	29,990
			α *Hydræ*	20	59	55	85	
			θ *Ursæ Maj.*	39	21	30	84,8	29,995
			ε *Leonis*	11	28	37,5	84,8	
			μ *Leonis*	13	43	35	84,6	30,000
			η *Leonis*	4	30	55	84,6	30,005
			Regulus	0	16	50	84,5	30,015
			ζ *Leonis*	11	11	20	84,5	
			γ *Leonis*	7	37	15	84,5	30,020
			β *Ursæ Maj.*	44	12	20	84,8	30,028
			α *Ursæ Maj.*	49	34	25	84,8	
			δ *Leonis*	8	22	57,5	84,8	30,030
			σ *Leonis*	6	6	35	84,8	
			τ *Leonis*	9	16	55	85	30,035
			υ *Leonis*	12	56	40	85	
			β *Leonis*	2	27	22,5	85	30,040
			β *Virginis*	10	20	50	85	
			γ *Ursæ Maj.*	41	33	10	85	
	10	E	⊙ *L. L.*	5	21	0	93	30,035
			Procyon	7	21	50	86	29,985
			Pollux	15	24	0	86	
			ζ *Navis*	52	31	55	86	
			γ *Navis*	59	50	25	85,8	29,987
			β *Cancri*	3	19	35	85,8	
			ε *Navis*	71	56	50	85,8	
			δ *Navis*	67	4	32,5	85,6	29,990
			α *Cancri*	9	30	47,5	85,6	
			κ *Ursæ Maj.*	34	47	55	85,5	
			λ *Navis*	55	44	50	85,5	29,992
			β *Navis*	81	56	30	85,4	
			ι *Navis*	71	32	30	85,4	
			κ *Luc. Boreal.*	67	16	25	85,4	29,994
			α *Hydræ*	20	56	45	85,3	29,996
			θ *Ursæ Maj.*	39	25	5	85,3	29,992
			ε *Leonis*	11	31	50	85,3	
			μ *Leonis*	13	47	5	85,3	29,990
			α *Regulus*	0	12	0	85,3	
			ζ *Leonis*	11	14	30	85,3	

1824. Month.	Face.	Names.	Observed Zenith Distances. d.	m.	s.	Thermometer. d.	Barometer. Inches.
April 10	E	γ *Leonis*	7	40	50	85,4	29,985
		θ *Navis*	76	27	50	85,4	
		η *Navis*	71	45	55	85,4	
		μ. *Navis*	61	30	55	85,5	29,980
		β *Ursæ Maj.* . . .	44	16	20	85,5	
		α *Ursæ Maj.* . . .	49	38	25	85,2	29,985
		δ *Leonis*	8	26	35	85	29,990
		σ *Leonis*	6	3	15	85	29,992
		τ *Leonis*	9	12	55	84,8	29,995
		υ *Leonis*	12	53	35	84,8	
		β *Leonis*	2	30	15	84,5	30,000
		β *Virginis*	10	17	30	84,5	
		γ *Ursæ Maj.* . . .	41	37	10	84,5	
11	W	⊙ *L. L.*	5	2	17,5	91	30,030
		Procyon . . .	7	25	52,5	86	29,955
		Pollux	15	20	27,5	86	
		ζ *Navis*	52	36	15	86	29,960
		γ *Navis*	59	54	20	86	
		β *Cancri*	3	22	45	85,9	
		ε *Navis*	72	0	7,5	85,9	29,962
		δ *Navis*	67	8	20	85,9	
		α *Cancri*	0	34	5	85,9	29,966
		κ *Ursæ Maj.* . . .	34	44	10	85,9	29,968
		β *Navis*	81	59	50	85,8	29,970
		ι *Navis*	71	35	55	85,8	29,972
		κ *Luc. Boreal.* . . .	67	19	45	85,8	29,975
		α *Hydræ*	50	38	40	85,8	29,980
		θ *Ursæ Maj.* . . .	39	21	20	85,8	
		o *Leonis*	2	24	35	85,8	
		ι *Leonis*	11	28	25	85,8	
		μ *Leonis*	13	43	20	85,7	29,985
		η *Leonis*	4	30	55	85,7	29,990
		Regulus	0	16	35	85,7	30,000
		γ *Leonis*	7	37	35	85,7	
		θ *Navis*	13	29	5	85,5	30,002
		η *Navis*	71	49	15	85,5	30,005
		μ. *Navis*	61	34	35	85,5	
		β *Ursæ Maj.* . . .	44	12	22,5	85,5	30,008
		α *Ursæ Maj.* . . .	49	34	40	85,5	
		δ *Leonis*	8	22	45	85,3	30,010
		σ *Leonis*	6	6	45	85,3	
		τ *Leonis*	9	16	30	85,3	
		υ *Leonis*	12	57	10	85,3	
		β *Leonis*	2	27	32,5	85,2	30,015
		β *Virginis*	10	20	52,5	85,2	
		γ *Ursæ Maj.* . . .	41	33	10	85,2	
12	E	⊙ *L. L.*	4	37	12,5	91	30,025
		Procyon . . .	7	21	45	86,2	29,965
		Pollux	15	24	0	86,2	
		ζ *Navis*	52	32	10	86	29,970
		γ *Navis*	59	50	25	86	
		β *Cancri*	3	19	50	86	29,972
		ε *Navis*	71	56	47,5	85,8	
		δ *Navis*	67	4	35	85,8	29,975
		α *Cancri*	0	30	30	85,8	
		κ *Ursæ Maj.* . . .	34	47	40	85,8	
		λ *Navis*	55	45	5	85,7	29,980
		β *Navis*	81	56	35	85,7	
		ι *Navis*	71	32	22,5	85,6	29,982
		κ *Luc. Boreal.* . . .	67	16	20	85,6	
		α *Hydræ*	20	56	25	85,5	29,985
		θ *Ursæ Maj.* . . .	39	25	10	85,5	
		o *Leonis*	2	21	25	85,3	29,990
		ε *Leonis*	11	31	47,5	85,3	
		μ *Leonis*	13	47	7,5	85,1	29,995
		η *Leonis*	4	34	25	85,1	
		Regulus	0	13	10	85	30,000
		ζ *Leonis*	11	14	40	85	30,003
		γ *Leonis*	7	40	50	85	30,005
		θ *Navis*	76	27	40	85	
		η *Navis*	71	45	42,5	85	
		μ *Navis*	61	31	0	85	

1824. Month.		Face.	Names.	Observed Zenith Distances. d.	m.	s.	Thermometer. d.	Barometer. Inches.
April	12	E	β *Ursæ Maj.*	44	16	15	85	30,008
			δ *Leonis*	8	26	32,5	85	
			σ *Leonis*	6	3	27,5	85	30,010
			τ *Leonis*	9	13	5	85	
			ν *Leonis*	12	53	35	85	30,015
			γ *Ursæ Maj.*	41	27	10	85	30,020
	13	W	⊙ *L. L.*	4	18	50	90,5	30,080
			ζ *Navis*	52	56	5	86,4	30,015
			ε *Navis*	72	0	10	86,2	30,018
			δ *Navis*	67	8	20	86,1	30,020
			κ *Cancri*	0	33	45	85,9	30,021
			κ *Ursæ Maj.*	34	44	10	85,9	
			λ *Navis*	55	48	40	85,8	30,023
			β *Navis*	81	59	45	85,7	30,025
			ι *Navis*	71	36	2,5	85,7	
			κ *Luc. Boreal.*	67	19	45	85,6	30,026
			α *Hydræ*	21	59	45	85,5	30,028
			θ *Ursæ Maj.*	59	21	27,5	85,3	30,030
			ε *Leonis*	11	28	45	85	30,032
			μ *Leonis*	13	43	20	84,8	30,035
			Regulus	0	16	50	84,6	
			ζ *Leonis*	11	10	45	84,5	
			γ *Leonis*	7	37	35	84,2	30,040
			θ *Navis*	76	30	47,5	84,2	30,042
			η *Navis*	71	49	25	83,3	
			μ *Navis*	61	34	30	83,4	30,045
			β *Ursæ Maj.*	44	12	15	84,5	
			δ *Leonis*	8	22	50	84,5	30,048
			σ *Leonis*	6	6	55	84,5	30,050
			τ *Leonis*	9	16	50	84,6	30,052
			ν *Leonis*	12	57	17,5	84,7	30,055
			γ *Ursæ Maj.*	41	33	12,5	84,7	30,060
	14	E	⊙ *L. L.*	3	53	50	90,5	30,110
			ζ *Navis*	52	32	15	85,5	30,028
			γ *Navis*	59	50	40	85,5	30,030
			ε *Navis*	71	57	0	85,5	30,035
			δ *Navis*	67	4	42,5	85,5	30,040
			κ *Cancri*	0	30	45	85,4	30,046
			κ *Ursæ Maj.*	34	47	32,5	85,4	30,050
			λ *Navis*	55	45	15	85,4	30,055
			β *Navis*	81	56	45	85,4	30,060
			ι *Navis*	71	32	30	85,3	30,065
			κ *Luc. Boreal.*	67	16	35	85,3	30,073
			α *Hydræ*	20	56	37,5	85,3	30,075
			θ *Ursæ Maj.*	59	24	52,5	85,2	30,080
			ε *Leonis*	11	31	30	85,2	30,086
			μ *Leonis*	13	47	5	85,2	30,090
			η *Leonis*	4	34	10	85,2	30,095
			Regulus	0	13	25	85,2	30,100
			γ *Leonis*	7	40	40	85,2	
			θ *Navis*	76	27	50	85,1	30,102
			η *Navis*	71	45	30	85,1	
			μ *Navis*	61	31	5	85,1	
			β *Ursæ Maj.*	44	16	10	85,1	30,105
			κ *Ursæ Maj.*	49	38	25	85	
			δ *Leonis*	8	26	10	85	
			σ *Leonis*	6	3	30	85	
			τ *Leonis*	9	13	40	84,8	30,110
			ν *Leonis*	12	53	30	84,8	30,115
			β *Virginis*	10	17	40	84,7	
			γ *Ursæ Maj.*	41	37	2,5	84,7	30,120
	15	W	⊙ *L. L.*	3	35	15	91	
			γ *Navis*	59	53	57,5	85,2	30,030
			ε *Navis*	71	59	57,5	85,2	
			δ *Navis*	67	8	10	85,2	30,035
			α *Cancri*	0	33	42,5	85,2	
			κ *Ursæ Maj.*	34	44	0	85,1	30,038
			λ *Navis*	55	48	22,5	85,1	30,035
			β *Navis*	81	59	35	85,1	
			ι *Navis*	71	35	45	85,1	
			κ *Luc. Boreal.*	67	19	40	85,1	30,040
			α *Hydræ*	20	59	50	85	

1824. Month.	Face.	Names.	Observed Zenith Distances. d.	m.	s.	Thermometer. d.	Barometer. Inches.
April 15	W	β *Ursæ Maj.*	39	21	30	85	30,040
		ε *Leonis*	11	28	45	85	30,042
		μ *Leonis*	13	43	40	85	
		η *Leonis*	4	31	10	85	30,045
		Regulus	0	16	32,5	85	
		γ *Leonis*	7	37	40	85	30,050
		θ *Navis*	76	30	30	85	30,052
		η *Navis*	71	49	30	85	30,060
		μ *Navis*	61	34	20	85	30,065
		β *Ursæ Maj.*	44	12	20	84,8	
		α *Ursæ Maj.*	49	34	35	84,8	
		δ *Leonis*	8	22	50	84,6	30,068
		σ *Leonis*	6	6	15	84,5	
		τ *Leonis*	9	16	30	84,4	
		ν *Leonis*	12	57	10	84,2	30,070
		β *Virginis*	10	20	25	84	
		γ *Ursæ Maj.*	41	33	2,5	84	
16	E	⊙ *L. L.*	3	11	5	90,2	30,125
		β *Cancri*	3	20	5	86	30,055
		ε *Navis*	71	56	57,5	86	
		δ *Navis*	67	4	50	86	
		α *Cancri*	0	30	45	85,9	30,056
		λ *Navis*	55	45	30	85,9	
		β *Navis*	81	57	5	85,9	
		ι *Navis*	71	32	50	85,8	30,058
		κ *Luc. Boreal.*	67	16	40	85,8	
		α *Hydræ*	20	56	47,5	85,8	
		θ *Ursæ Maj.*	34	24	52,5	85,8	
		ε *Leonis*	11	31	45	85,8	
		μ *Leonis*	13	46	50	85,7	
		η *Leonis*	4	34	20	85,7	30,060
		Regulus	0	13	40	85,7	
		ζ *Leonis*	11	14	20	85,7	
		γ *Leonis*	7	40	25	85,7	
		θ *Navis*	76	28	10	85,6	30,062
		η *Navis*	71	46	10	85,6	
		μ *Navis*	61	30	55	85,6	
		β *Ursæ Maj.*	49	38	10	85,6	
		α *Ursæ Maj.*	44	15	50	85,6	30,065
		κ *Leonis*	4	46	15	85,5	
		θ *Leonis*	3	19	40	85,5	30,068
		σ *Leonis*	6	3	45	85,5	
		τ *Leonis*	9	13	30	85,5	30,070
		ν *Leonis*	12	53	45	85,5	
17	W	⊙ *L. L.*	2	52	28,75	92,2	30,115
		β *Cancri*	3	25	27,5	86,2	30,015
		ε *Navis*	72	3	10	86,2	30,020
		δ *Navis*	67	11	22,5	86	30,025
		λ *Navis*	55	51	15	86	30,030
		β *Navis*	82	2	40	85,8	30,040
		ζ *Leonis*	11	13	50	85,8	30,050
		γ *Leonis*	7	40	30	85,5	30,055
		η *Navis*	18	13	37,5	85,5	
18	E	⊙ *L. L.*	2	31	32	91	30,110
		β *Cancri*	3	22	15	85,2	30,043
		ε *Navis*	72	0	5	85,2	
		δ *Navis*	67	8	5	85,2	
		κ *Ursæ Maj.*	34	44	20	85	30,045
		λ *Navis*	55	47	55	85	
		β *Navis*	81	59	25	85	30,048
		ι *Navis*	71	35	32,5	84,8	
		κ *Luc. Boreal.*	67	19	35	84,8	
		α *Hydræ*	20	59	35	84,8	
		θ *Ursæ Maj.*	39	22	5	84,8	
		o *Leonis*	2	24	0	84,7	30,049
		ε *Leonis*	11	29	5	84,7	30,050
		μ *Leonis*	13	44	0	84,7	30,052
		Regulus	0	16	20	84,7	30,054
		ζ *Leonis*	11	11	25	84,7	30,055
		γ *Leonis*	7	37	50	84,7	
		θ *Navis*	76	30	32,5	84,6	
		η *Navis*	71	49	5	84,6	30,060

1824. Month.	Face.	Names.	Observed Zenith Distances. d.	m.	s.	Thermometer. d.	Barometer. Inches.
April 18	E	μ *Navis*	61	33	30	84,6	30,060
		β *Ursæ Maj.*	49	35	32,5	84,6	
		α *Ursæ Maj.*	44	12	30	84,5	30,062
		δ *Leonis*	8	23	15	84,5	
		σ *Leonis*	6	6	22,5	84,5	30,064
		τ *Leonis*	9	16	10	84,5	
		ν *Leonis*	12	56	50	84,5	30,065
		β *Leonis*	2	27	50	84,4	
		γ *Ursæ Maj.*	41	33	45	84,4	
		β *Centauri*	62	48	40	84,4	30,068
		ε *Corvi*	34	43	42,5	84,3	
		β *Crucis*	70	50	50	84,3	
		η *Virginis*	12	46	55	84,2	30,070
		κ *Crucis*	75	10	7,5	84,2	
19	W	☉ *L. L.*	2	8	55	90	30,118
		ε *Navis*	71	57	45	84,4	30,037
		δ *Navis*	67	5	27,5	84,4	
		α *Cancri*	0	31	12,5	84,4	30,040
		κ *Ursæ Maj.*	34	46	50	84,6	
		λ *Navis*	55	46	5	84,6	
		ι *Navis*	71	33	0	84,6	30,045
		κ *Luc. Boreal*	67	17	20	84,6	
		α *Hydræ*	20	57	25	84,8	30,048
		θ *Ursæ Maj.*	39	23	45	84,8	
		o *Leonis*	2	22	22,5	84,8	30,050
		ε *Leonis*	11	30	50	84,8	30,060
		μ *Leonis*	13	46	20	84,8	
		Regulus	0	13	47,5	84,8	30,062
		ζ *Leonis*	11	13	37,5	84,8	
		γ *Leonis*	7	39	43	84,8	30,065
		θ *Navis*	76	28	37,5	84,8	30,070
		η *Navis*	71	46	47,5	84,8	30,080
		μ *Navis*	61	31	27,5	84,8	30,090
		β *Ursæ Maj.*	49	37	10	84,8	30,110
		α *Ursæ Maj.*	44	15	10	84,8	
		δ *Leonis*	8	25	30	84,7	
		σ *Leonis*	6	4	2,5	84,7	
		τ *Leonis*	9	13	47,5	84,7	
		ν *Leonis*	12	54	35	84,7	30,112
		β *Leonis*	2	29	35	84,8	
		γ *Ursæ Maj.*	41	35	57,5	84,8	
		β *Centauri*	62	46	25	84,8	30,115
		ε *Corvi*	34	41	15	85	
		β *Crucis*	70	47	15	85	30,120
		η *Virginis*	12	44	40	85	
		δ *Corvi*	38	35	10	85	
20	E	☉ *L. L.*	1	49	45	90,2	
		ε *Navis*	71	59	20	87,2	30,055
		δ *Navis*	67	7	10	87	30,060
		λ *Navis*	55	47	27,5	86,9	30,070
		κ *Hydræ*	20	59	55	86,7	30,075
		Regulus	0	16	5	86,7	30,080
		γ *Leonis*	7	38	17,5	86,6	30,090
		β *Ursæ Maj.*	49	36	0	86,2	30,095
		α *Ursæ Maj.*	44	13	20	86,2	30,100
21	W	☉ *L. L.*	1	27	25	90,7	30,115
	E	δ *Navis*	67	7	20	87,3	30,042
		α *Cancri*	0	33	5	87,3	
		κ *Ursæ Maj.*	34	45	5	87,3	
		λ *Navis*	55	47	27,5	87	30,045
		α *Hydræ*	20	59	10	87	
		θ *Ursæ Maj.*	39	22	27,5	87	
		o *Leonis*	2	23	40	86,8	30,050
		ε *Leonis*	11	29	37,5	86,8	30,053
		μ *Leonis*	13	44	55	86,7	
		Regulus	0	16	12,5	86,6	30,055
		ζ *Leonis*	11	11	50	86,6	
		γ *Leonis*	7	38	45	86,5	30,060
		θ *Navis*	76	30	20	86,3	
		η *Navis*	71	48	17,5	86,2	30,062
		μ *Navis*	61	33	15	86,2	30,065
		β *Ursæ Maj.*	44	13	35	86,3	

1824. Month.		Face.	Names.	Observed Zenith Distances. d.	m.	s.	Thermometer. d.	Barometer. Inches.
April	21	E	α *Ursæ Maj.* . . .	49	35	55	86,4	30,065
			δ *Leonis*	8	23	50	86,4	30,070
			σ *Leonis*	6	6	0	86,2	
			τ *Leonis*	9	15	30	86,2	30,075
			ν *Leonis*	12	56	12,5	86,2	
			β *Leonis*	2	28	10	86	30,083
			γ *Ursæ Maj.* . . .	41	34	10	86	
			δ *Centauri* . . .	62	48	15	86	30,085
			ϵ *Corvi* . . .	34	43	5	85,8	
			δ *Crucis* . . .	70	49	5	85,7	30,090
			η *Virginis* . . .	12	46	22,5	85,7	30,095
			δ *Corvi*	28	37	15	85,7	30,100
	22		⊙ *L. L.*	1	9	12,5	91,7	30,117
		W	δ *Navis*	67	5	35	86,5	30,035
			α *Cancri*	0	30	57,5	86,5	
			α *Ursæ Maj.* . . .	34	47	7,5	86,5	30,040
			λ *Navis* . . .	55	46	0	86,4	
			ι *Navis* . . .	71	33	12,5	86,4	30,042
			α *Luc. Boreal* . . .	67	17	15	86,3	30,045
			α *Hydræ* . . .	20	57	22,5	86,3	
			β *Ursæ Maj.* . . .	50	36	5	86,3	
			ϑ *Leonis* . . .	2	21	50	86,3	
			μ *Leonis* . . .	13	46	25	86,3	30,050
			Regulus	0	13	55	86	30,055
			ζ *Leonis* . . .	11	13	47,5	86	30,058
			γ *Leonis* . . .	7	40	12,5	86	30,061
			η *Navis*	71	46	45	86	30,065
			β *Ursæ Maj.* . . .	44	15	17,5	85,8	30,068
			α *Ursæ Maj.* . . .	49	37	15	85,8	30,070
			σ *Leonis*	6	3	55	85,8	30,072
			τ *Leonis*	9	13	55	85,8	30,074
			ν *Leonis*	12	54	55	85,8	30,075
			β *Leonis*	2	29	40	85,8	30,080
			γ *Ursæ Maj.* . . .	41	36	0	85,8	
			δ *Centauri*	62	46	30	85,8	30,082
			ϵ *Corvi*	34	41	20	85,8	30,085
			δ *Crucis*	70	47	5	85,7	30,090
			η *Virginis*	12	44	47,5	85,7	30,095
			α *Crucis* . . .	75	7	40	85,5	30,100
			δ *Corvi*	28	35	22,5	85,5	30,105
	23	E	☽ *L. L.* . . .	0	48	52,5	91,7	30,110
			ϑ *Navis* . . .	67	7	17,5	86,4	30,024
			α *Cancri*	0	33	5	86,4	
			α *Ursæ Maj.* . . .	34	45	5	86,4	30,030
			λ *Navis*	55	47	30	86,2	30,032
			β *Navis*	81	59	10	86,2	30,035
			ι *Navis*	71	35	20	86,2	30,040
			α *Luc. Boreal.* . . .	67	19	10	86,1	30,045
			α *Hydræ*	20	59	20	86,1	30,052
			β *Ursæ Maj.* . . .	39	22	32,5	86,1	30,060
			o *Leonis*	2	23	50	86	30,065
			μ *Leonis*	13	44	35	86	30,070
			Regulus	0	15	42,5	85,8	30,080
			ζ *Leonis*	11	12	2,5	85,7	30,085
			γ *Leonis*	7	38	7,5	85,7	
			η *Navis* $_0$	71	48	25	85,7	
			β *Ursæ Maj.* . . .	44	13	35	85,7	30,088
			α *Ursæ Maj.* . . .	49	35	57,5	85,7	
			σ *Leonis*	6	5	32,5	85,6	30,090
			τ *Leonis*	9	15	45	85,6	30,095
			β *Leonis*	2	28	5	85,6	30,099
	•		γ *Ursæ Maj.* . . .	41	34	25	85,6	
			δ *Centauri*	62	48	5	85,6	
			ϵ *Corvi*	34	43	10	85,5	30,100
			δ *Crucis*	70	49	12,5	85,5	
			η *Virginis*	12	46	15	85,5	30,105
			α *Crucis*	75	9	30	85,5	
			δ *Corvi*	28	37	17,5	85,5	30,110
	24	W	⊙ *L. L.* . . .	0	27	35	91,7	30,085
			α *Hydræ*	20	57	22,5	86	30,020
			Regulus	0	14	10	85,8	30,032
			γ *Leonis*	7	40	20	85,5	30,045

1824. Month.		Face.	Names.	Observed Zenith Distances. d	m.	s.	Thermometer. d.	Barometer. Inches.
April	25	E	☉ *L. L.*	0	9	35	92	30,100
		W	δ *Navis*	67	5	37,5	86	30,020
			α *Cancri*	0	31	15	86	
			π *Ursæ Maj.*	34	47	12,5	86	
			λ *Navis*	55	46	10	86	30,018
			π *Luc. Boreal.*	67	17	17,5	86	
			α *Hydræ*	20	57	25	86	
			Regulus	0	13	27,5	86	30,015
			ζ *Leonis*	11	13	35	86	
			γ *Leonis*	7	40	17,5	86	
			β *Ursæ Maj.*	44	15	0	86	
			δ *Leonis*	8	25	25	85,7	30,020
			σ *Leonis*	6	3	50	85,7	
			τ *Leonis*	9	13	42,5	85,7	
			υ *Leonis*	12	54	55	85,5	30,035
			β *Leonis*	2	29	55	85,5	
			α *Corvi*	36	48	17,5	85,3	30,040
			ε *Corvi*	34	41	35	85,2	30,045
			γ *Corvi*	29	36	2,5	85	30,055
	26		☉ *L. L.*	0	43	50	92,5	30,075
		E	δ *Navis*	67	7	25	86,2	30,015
			λ *Navis*	55	47	15	86,2	
			β *Navis*	81	59	12,5	86,2	30,020
			ι *Navis*	71	55	20	86,5	30,025
			α *Hydræ*	20	59	15	86,5	30,028
			θ *Ursæ Maj.*	39	22	30	86,5	30,030
			o *Leonis*	2	24	2,5	86,5	30,032
			ε *Leonis*	11	29	32,5	86,6	30,035
			μ *Leonis*	13	44	37,5	86,7	
			Regulus	0	15	45	86,7	30,040
			ζ *Leonis*	11	11	55	86,7	30,042
			γ *Leonis*	7	38	25	86,7	30,045
			θ *Navis*	76	30	12,5	86,5	30,050
			β *Ursæ Maj.*	44	13	42,5	86,5	30,055
			α *Ursæ Maj.*	49	55	52,5	86,5	30,065
			δ *Leonis*	8	23	47,5	86,5	
			σ *Leonis*	6	5	30	86,3	30,070
			τ *Leonis*	9	15	25	86,3	
			υ *Leonis*	12	56	5	86	30,072
			β *Leonis*	2	27	55	86	
			γ *Ursæ Maj.*	41	34	30	86	
			α *Corvi*	36	49	25	85,5	30,075
			ε *Corvi*	34	43	0	85,2	30,080
			γ *Corvi*	29	38	45	85,2	
	27		☉ *L. L.*	1	0	57,5	92	30,135
		W	π *Ursæ Maj.*	34	46	42,5	87	30,047
			λ *Navis*	55	46	20	86,8	
			α *Hydræ*	20	57	27,5	86,8	30,050
			θ *Ursæ Maj.*	39	24	2,5	86,8	
			o *Leonis*	2	21	57,5	86,7	30,053
			ε *Leonis*	11	31	5	86,7	
			μ *Leonis*	13	46	22,5	86,5	30,055
			Regulus	0	13	55,5	86,5	
			ζ *Leonis*	11	13	45	86,4	30,060
			γ *Leonis*	7	40	15	86,3	30,065
			ϱ *Leonis*	2	51	10	86,1	
			ν *Navis*	71	46	55	86,1	30,075
			β *Ursæ Maj.*	44	15	5	86	
			α *Ursæ Maj.*	49	57	20	86	30,080
			γ *Ursæ Maj.*	41	36	20	86	30,088
			α *Corvi*	36	48	5	85,8	30,090
			ε *Corvi*	34	41	10	85,8	
			γ *Corvi*	29	36	0	85,8	
			η *Virginis*	12	44	20	85,8	30,095
			α *Crucis*	75	7	52,5	85,7	
			δ *Corvi*	28	35	0	85,7	30,100
			γ *Crucis*	69	9	30	85,7	30,105
			β *Corvi*	35	28	30	85,7	30,110
			γ *Centauri*	61	1	30	85,7	
	28		☉ *L. L.*	1	21	42,5	91	30,105
		E	π *Ursæ Maj.*	34	44	57,5	86,2	30,032
			λ *Navis*	55	47	35	86,2	

1824. Month.	Face.	Names.	Observed Zenith Distances.			Thermometer.	Barometer.
			d.	m.	s.	d.	Inches.
April 28	E	κ *Luc. Boreal.* . . .	67	19	5	86	30,035
		α *Hydræ* . . .	69	1	0	86	
		θ *Ursæ Maj.* . . .	39	22	27,5	86,8	
		o *Leonis*	2	23	50	85,7	30,040
		π *Leonis*	4	11	52,5	85,7	30,045
		Regulus . . .	0	15	40	85,5	30,055
		β *Navis*	81	59	20	85,5	
		ζ *Leonis*	11	12	2,5	85,5	30,057
		γ *Leonis*	7	38	25	85,5	30,058
		ρ *Leonis*	2	52	45	85,5	
		θ *Navis*	76	30	5	85,4	
		η *Navis*	71	48	30	85,4	
		ι *Navis*	61	39	17,5	85,4	30,060
		β *Ursæ Maj.* . . .	44	19	35	85,4	
		α *Ursæ Maj.* . . .	49	35	55	85,4	
		κ *Leonis*	4	48	35	85,3	30,070
		ψ *Ursæ Maj.* . . .	32	21	12,5	85,3	30,072
		θ *Leonis*	3	18	15	85,3	30,075
		β *Virginis*	10	20	15	85,3	30,080
		γ *Ursæ Maj.* . . .	41	34	20	85,3	
		α *Corvi*	36	49	15	85,2	30,085
		ε *Corvi*	24	43	7,5	85,2	
		γ *Corvi*	29	38	50	85,2	30,090
		η *Virginis*	12	46	12,5	85,2	
		α *Crucis*	75	9	22,5	85,1	30,095
		δ *Corvi*	28	37	0	85,1	
		γ *Crucis*	69	10	50	85	30,100
		β *Corvi*	35	30	5	85	30,102
		γ *Centauri* . . .	61	2	50	85	30,105
29		⊙ *L. L.*	1	38	52,5	91	30,100
	W	λ *Navis*	55	46	5	86,5	30,015
		β *Navis*	81	57	22,5	86,5	
		ι *Navis*	71	33	15	86,5	
		κ *Luc. Boreal.* . . .	67	17	20	86,5	30,010
		α *Hydræ*	20	57	30	86,5	
		o *Leonis*	2	22	17,5	86,5	
		ν *Navis*	77	15	15	86,5	
		π *Leonis*	4	9	55	86,5	30,005
		Regulus . . .	0	13	52,5	86,5	
		ζ *Leonis*	11	13	40	86,5	
		γ *Leonis*	7	40	15	86,5	30,010
		ρ *Leonis*	2	50	40	86,3	
		θ *Navis*	76	28	52,5	86,3	30,015
		η *Navis*	71	46	55	86,3	
		μ *Navis*	61	31	55	86,3	
		β *Ursæ Maj.* . . .	44	15	12,5	86,3	30,020
		α *Ursæ Maj.* . . .	49	37	15	86,3	
		κ *Leonis*	4	46	47,5	86	30,035
		ψ *Ursæ Maj.* . . .	32	23	15	86	30,040
		θ *Leonis*	3	19	50	86	
		β *Leonis*	2	30	10	86	
		β *Virginis*	10	18	17,5	85,8	
		γ *Ursæ Maj.* . . .	41	36	10	85,8	30,045
		α *Corvi*	36	48	12,5	85,8	
		ε *Corvi*	24	41	12,5	85,8	30,050
		γ *Corvi*	29	37	7,5	85,7	
		η *Virginis* . . .	12	44	30	85,7	30,058
		α *Crucis*	75	7	55	85,7	30,060
		δ *Corvi*	28	35	7,5	85,7	
		γ *Crucis*	69	9	22,5	85,5	30,065
		β *Corvi*	35	28	37,5	85,5	30,070
		α *Mus. Indic.* . . .	81	8	15	85,5	
		γ *Centauri* . . .	61	1	22,5	85,5	30,075
30		⊙ *L. L.*	1	39	10	92,7	
	E	α *Hydræ*	20	58	55	87,2	30,000
		θ *Ursæ Maj.* . . .	39	22	22,5	87	
		o *Leonis*	2	23	45	86,8	
		Regulus . . .	0	15	42,5	86,6	30,005
		β *Ursæ Maj.* . . .	44	13	30	86,6	30,010
		α *Ursæ Maj.* . . .	49	35	57,5	86,4	30,021
		ψ *Ursæ Maj.* . . .	32	21	5	86,4	30,025
		θ *Leonis*	3	18	5	86,2	30,030

1824. Month.	Face.	Names.	Observed Zenith Distances. d.	m.	s.	Thermometer. d.	Barometer. Inches.
April 30	E	β *Leonis*	2	28	5	86	30,038
		β *Virginis*	10	20	10	86	
		γ *Ursæ Maj.*	41	31	45	86	
		ε *Corvi*	36	49	22,5	86	
		ε *Corvi*	34	43	7,5	85,8	30,040.
		γ *Corvi*	29	38	55	85,8	30,045
		η *Virginis*	12	46	27,5	85,8	30,050
		α *Crucis*	75	9	20	85,6	30,054
		δ *Corvi*	28	36	47,5	85,6	30,055
		γ *Crucis*	69	10	37,5	85,6	30,060
		β *Corvi*	35	29	55	85,5	30,062
		α *Mus. Indic.*	81	10	2,5	85,5	30,065
		γ *Centauri*	61	3	2,5	85,5	30,070
May 1		☉ *L. L.*	2	15	32,5	93,5	
	W	λ *Navis*	55	46	12,5	86,5	29,965
		β *Navis*	81	57	30	86,5	
		ι *Navis*	71	33	25	86,5	
		κ *Luc. Boreal.*	67	17	30	86,5	
		α *Hydræ*	20	57	25	86,3	
		θ *Ursæ Maj.*	39	23	0	86,3	
		o *Leonis*	2	21	55	86,3	
		ε *Leonis*	11	31	5	86,1	
		ν *Navis*	12	44	45	86,1	
		τ *Leonis*	4	10	15	86,1	
		η *Leonis*	4	33	22,5	86	
		Regulus	0	14	0	86	
		ζ *Leonis*	11	13	42,5	86	
		γ *Leonis*	7	40	22,5	86	
		ι *Leonis*	2	50	47,5	85,8	29,970
		δ *Navis*	76	28	55	85,6	
		η *Navis*	71	46	55	85,6	29,972
		μ *Navis*	61	32	2,5	85,4	
		β *Ursæ Maj.*	44	15	2,5	85,4	29,975
		κ *Leonis*	4	46	35	85,2	29,980
		ψ *Ursæ Maj.*	32	23	2,5	85	29,985
		θ *Leonis*	3	19	57,5	84,8	29,988
		β *Leonis*	2	29	55	84,8	
		β *Virginis*	10	18	20	84,8	
		γ *Ursæ Maj.*	41	36	12,5	84,8	
		α *Corvi*	36	48	5	84,6	29,990
		ε *Corvi*	34	41	15	84,6	
		γ *Corvi*	29	37	7,5	84,5	29,995
		η *Virginis*	12	44	35	84,3	
		α *Crucis*	75	7	57,5	84,3	30,000
		δ *Corvi*	28	34	52,5	84,2	
		γ *Crucis*	69	9	30	84	30,010
		β *Corvi*	35	28	45	84	
		α *Mus. Indic.*	81	8	17,5	84	
		γ *Centauri*	61	1	32,5	84	
	2	☉ *L. L.*	2	35	30	92,5	30,000
	E	λ *Navis*	55	47	45	87	29,918
		β *Navis*	81	59	15	87	
		ι *Navis*	71	35	25	86,8	
		κ *Luc. Boreal.*	67	19	7,5	86,8	29,917
		α *Hydræ*	20	59	5	86,8	
		θ *Ursæ Maj.*	39	22	22,5	86,6	
		o *Leonis*	2	23	50	86,6	29,915
		ε *Leonis*	11	29	35	86,6	
		ν *Navis*	12	42	52,5	86,5	
		π *Leonis*	4	12	2,5	86,5	
		η *Leonis*	4	31	47,5	86,5	
		Regulus	0	15	30	86,5	
		ζ *Leonis*	11	12	7,5	86	
		γ *Leonis*	7	38	27,5	86	
		ι *Leonis*	2	52	35	86	
		δ *Navis*	76	30	20	86	29,920
		η *Navis*	71	48	35	85,8	
		μ *Navis*	61	33	5	85,8	
		β *Ursæ Maj.*	44	13	35	85,8	29,925
		ψ *Ursæ Maj.*	32	21	7,5	85,8	
		θ *Leonis*	3	17	57,5	85,8	
		ι *Leonis*	1	35	25	85,8	

1824. Month.	Face.	Names.	Observed Zenith Distances. d.	m.	s.	Thermometer. d.	Barometer. Inches.
May 2	E	β *Leonis*	2	27	52,5	85,8	29,928
		β *Virginis*	10	20	10	85,8	
		γ *Ursæ Maj.*	41	34	15	85,8	
		α *Corvi*	36	49	25	85,7	29,930
		ε *Corvi*	34	43	10	85,7	
		γ *Corvi*	29	38	47,5	85,7	29,932
		η *Virginis*	12	46	25	85,7	
		α *Crucis*	75	9	25	85,7	29,935
		δ *Corvi*	28	36	52,5	85,5	
		γ *Crucis*	69	10	42,5	85,5	
		β *Corvi*	35	30	0	85,5	29,940
		α *Mus. Indic.*	81	10	7,5	85,5	
		γ *Centauri*	61	3	5	85,5	
	3	☉ *L. L.*	2	51	20	94	29,945
		☽ *L. L.*	11	0	35	87,5	29,848
		Jupiter (centr.)	10	19	30	87,5	
	W	β *Navis*	81	57	30	87,5	
		ι *Navis*	71	33	22,5	87,5	29,850
		α *Luc. Boreal.*	67	17	35	87,4	
		α *Hydræ*	20	57	35	87,4	
		β *Ursæ Maj.*	39	23	54,5	87,4	29,852
		ε *Leonis*	11	30	57,5	87,4	
		γ *Navis*	77	15	17,5	87,3	29,855
		π *Navis*	4	10	12,5	87,3	
		Regulus	0	14	7,5	87,3	29,859
		ζ *Leonis*	11	13	42,5	87,3	
		γ *Leonis*	7	40	17,5	87,3	
		ρ *Leonis*	2	50	55	87,2	29,860
		θ *Navis*	76	29	10	87,2	
		η *Navis*	71	46	55	87,2	29,865
		μ *Navis*	61	32	10	87	
		β *Ursæ Maj.*	44	14	55	87	
		κ *Leonis*	4	46	27,5	87	29,870
		ψ *Ursæ Maj.*	32	23	7,5	87	
		θ *Leonis*	3	19	45	86,8	29,880
		ι *Leonis*	1	33	47,5	86,8	29,885
		β *Leonis*	2	30	5	86,8	29,895
		β *Virginis*	10	18	35	86,8	
		γ *Ursæ Maj.*	41	36	20	86,8	
		α *Corvi*	36	48	10	86,7	29,900
		ε *Corvi*	34	40	55	86,7	
		γ *Corvi*	29	36	55	86,7	29,908
		η *Virginis*	12	44	20	85,7	
		α *Crucis*	75	7	57,5	86,7	
		δ *Corvi*	28	35	10	86,5	29,910
		γ *Crucis*	69	9	25	86,5	
		β *Corvi*	35	28	42,5	86,5	29,915
		α *Mus. Indic.*	81	8	20	86,5	
		γ *Centauri*	61	1	40	86,5	29,920
		☉ *L. L.*	3	10	47,5	100,7	29,915
	E	α *Hydræ*	20	59	10	88,5	29,845
		θ *Ursæ Maj.*	39	22	30	88,5	
		ε *Leonis*	11	29	35	88,3	29,847
		π *Leonis*	4	11	50	88,3	
		Regulus	0	15	40	88	29,850
		ζ *Leonis*	11	12	2,5	88	
		γ *Leonis*	7	38	27,5	88	
		ρ *Leonis*	2	52	25	87,8	29,855
		θ *Navis*	76	30	25	87,8	
		η *Navis*	71	48	25	87,8	29,860
		μ *Navis*	61	32	10	87,8	
		β *Ursæ Maj.*	44	13	37,5	87,5	29,865
		α *Ursæ Maj.*	49	36	10	87,5	
		κ *Leonis*	4	48	7,5	87,5	29,870
		ψ *Ursæ Maj.*	32	21	17,5	87,5	
		θ *Leonis*	3	18	5	87,3	29,873
		ι *Leonis*	1	35	20	87,3	
		β *Leonis*	2	27	40	87,3	29,880
		β *Virginis*	10	20	5	87,2	29,888
		γ *Ursæ Maj.*	41	34	22,5	87,2	
		α *Corvi*	36	49	22,5	87,2	
		ε *Corvi*	34	43	7,5	87,2	29,886

1824. Month.		Face.	Names.	Observed Zenith Distances. d	m.	s.	Thermometer. d.	Barometer. Inches.
May	4	E	*γ Corvi*	29	39	5	87,3	29,886
			η Virginis	12	46	5	87,3	29,884
			α Crucis	75	9	25	87,3	
			δ Corvi	28	37	7,5	87,3	
			γ Crucis	69	10	45	87,5	29,882
			β Corvi	35	30	7,5	87,5	
			κ Mus. Indic.	81	9	0	87,5	29,880
			γ Centauri	61	2	55	87,5	
	5		☉ *L. L.*	3	26	12,5	97,5	29,940
		W	*α Hydræ*	20	57	22,5	88	29,855
			θ Ursæ Maj.	50	36	5	88	29,860
			o Leonis	2	22	2,5	88	
			ε Leonis	11	31	0	88	29,870
			ν Navis	12	44	35	87	29,875
			π Leonis	4	10	10	87	29,880
			η Leonis	4	33	30	87	29,885
			Regulus	0	14	2,5	87,8	29,900
			ζ Leonis	11	13	37,5	87,6	29,885
			γ Leonis	7	40	0	87,5	29,887
			ρ Leonis	2	50	40	87,5	29,895
			δ Navis	13	31	10	87,4	29,898
			η Navis	71	47	2,5	87,4	
			μ Navis	61	31	50	87,4	29,895
			β Ursæ Maj.	44	15	7,5	87,3	
			α Ursæ Maj.	49	37	17,5	87,3	29,897
			κ Leonis	4	46	30	87,3	
			ψ Ursæ Maj.	32	23	20	87,3	
			θ Leonis	3	19	55	87,1	29,890
			ι Leonis	1	33	37,5	87,1	
			β Leonis	2	30	5	87	29,888
			β Virginis	10	18	20	87	
			γ Ursæ Maj.	41	36	7,5	87	
			α Corvi	36	48	0	87,1	29,900
			ε Corvi	34	41	20	87,1	
			γ Corvi	29	36	50	87,1	
			η Virginis	12	44	35	87,2	29,905
			κ Crucis	75	7	55	87,2	
			δ Corvi	28	35	0	87,2	29,911
			γ Crucis	69	9	25	87,2	
			β Corvi	35	28	47,5	87,3	29,920
			α Mus. Indic.	81	8	20	87,3	29,923
			γ Centauri	61	1	25	87,4	
			β Crucis	71	44	35	87,4	29,930
			ε Ursæ Maj.	43	50	37,5	87,5	29,935
			Cor. Caroli	26	12	12,5	87,5	
	6		☉ *L. L.*	3	45	5	93,5	29,940
		E	*α Hydræ*	20	59	7,5	87,3	29,898
			θ Ursæ Maj.	39	22	45	87,3	
			o Leonis	2	23	42,5	87,3	
			ε Leonis	11	29	35	87,3	
			ν Navis	12	43	7,5	87,3	
			π Leonis	4	11	47,5	87,3	
			η Leonis	4	31	32,5	87,2	29,900
			Regulus	0	15	52,5	87,2	
			ζ Leonis	11	12	10	87,2	
			γ Leonis	7	38	40	87,2	
			ρ Leonis	2	52	40	87,2	
			θ Navis	76	30	20	87,2	
			η Navis	71	48	50	87,2	
			μ Navis	61	33	0	87	
			β Ursæ Maj.	44	13	35	87	
			α Ursæ Maj.	49	35	55	87	
			κ Leonis	4	48	17,5	87	
			ψ Ursæ Maj.	32	21	5	87	
			θ Leonis	3	18	5	87	
			ι Leonis	1	35	17,5	87	
			β Leonis	2	27	50	87	29,905
			β Virginis	10	20	15	87	
			γ Ursæ Maj.	41	34	40	87	29,910
			α Corvi	36	49	25	87,3	
			ε Corvi	29	38	57,5	87,3	29,915
			γ Corvi	12	46	12,5	87,3	

1824. Month.		Face.	Names.	Observed Zenith Distances. d.	m.	s.	Thermometer. d.	Barometer. Inches.
May	6	E	η *Virginis*	12	46	12,5	87,3	29,915
			ε *Crucis*	75	9	30	87,5	29,920
			δ *Corvi*	28	37	5	87,5	
			γ *Crucis*	69	10	50	87,5	29,925
			β *Corvi*	32	30	10	87,6	
			α *Mus. Indic.* . . .	81	10	5	87,6	29,930
			γ *Centauri* . . .	61	3	10	87,7	
			β *Crucis*	71	46	12,5	87,7	29,935
			ε *Ursæ Maj.* . . .	43	49	10	88	
			Cor. Caroli . . .	26	9	52,5	88	29,940
	7		⊙ *L. L.*	3	59	57,5	102	29,915
		W	α *Leonis*	2	22	5	89	29,833
			ε *Leonis* . . .	11	31	0	89	
			ν *Navis*	77	15	30	89	
			π *Leonis*	4	10	12,5	89	29,834
			Regulus	0	14	0	89	
			ζ *Leonis* . . .	2	50	3	89	29,835
			δ *Navis*	76	28	57,5	89,3	
			η *Navis*	71	47	15	89,3	
			β *Ursæ Maj.* . . .	44	15	0	89,5	29,840
			α *Ursæ Maj.* . . .	49	37	25	89,5	
			κ *Leonis*	4	46	30	89,5	
			ψ *Ursæ Maj.* . . .	32	23	10	89,5	29,843
			β *Leonis* . . .	3	19	45	89,5	
			ι *Leonis*	1	33	50	89,5	29,845
			β *Leonis*	2	29	40	89	
			β *Virginis* . . .	10	18	35	89	
			γ *Ursæ Maj.* . . .	41	36	5	88,8	29,846
			α *Corvi*	36	48	15	88,8	
			ε *Corvi*	34	41	30	88,8	
			γ *Corvi*	29	37	5	88,8	29,847
			η *Virginis*	12	43	50	88,8	
			α *Crucis* . . .	75	8	10	88,7	29,848
			δ *Corvi*	28	35	10	88,7	
			γ *Crucis*	69	9	35	88,7	
			β *Corvi*	35	28	45	88,6	
			α *Mus. Indic.* . . .	81	8	30	88,6	29,850
			γ *Centauri* . . .	61	1	35	88,6	
			β *Crucis*	71	44	35	88,5	
			ε *Ursæ Maj.* . . .	43	50	25	88,5	
			Cor. Caroli . . .	26	11	45	88,5	
	8		⊙ *L. L.*	4	18	7,5	101	29,900
		E	ε *Leonis*	11	29	35	90,5	29,822
			ν *Navis*	12	43	0	90,5	
			π *Leonis*	4	11	45	89,8	29,820
			Regulus	0	15	30	89,8	
			ζ *Leonis*	2	52	30	89,8	29,818
			η *Navis*	71	48	55	89,8	
			μ *Navis*	61	33	5	89	
			β *Ursæ Maj.* . . .	44	13	50	89	
			α *Ursæ Maj.* . . .	49	36	12	89	
			κ *Leonis* . . .	4	48	17,5	88,8	
			ψ *Ursæ Maj.* . . .	32	21	0	88,8	
			θ *Leonis*	3	18	12,5	88,5	29,816
			ι *Leonis*	1	35	15	88,5	
			β *Leonis*	2	28	2,5	88,3	29,815
			β *Virginis*	10	20	25	88,3	
			γ *Ursæ Maj.* . . .	41	34	32,5	88	
			α *Corvi*	36	49	32,5	88	
			ε *Corvi*	34	42	47,5	88	
			γ *Corvi*	29	38	50	87,8	
			η *Virginis*	12	46	25	87,8	
			α *Crucis*	75	9	35	87,8	
			δ *Corvi*	28	36	55	87,6	
			γ *Crucis*	69	10	45	87,6	
			β *Corvi*	35	30	5	87,6	
			α *Mus. Indic.* . . .	81	9	50	87,4	
			γ *Centauri* . . .	61	2	50	87,4	
			β *Crucis*	71	46	5	87,2	
			ε *Ursæ Maj.* . . .	43	49	25	87,2	
			Cor. Caroli . . .	26	10	25	87,2	
	9		⊙ *L. L.*	4	32	12,5	100	29,860

1824. Month.		Face.	Names.	Observed Zenith Distances. d.	m.	s.	Thermometer. d.	Barometer. Inches.
May	9	W	*Regulus*	0	14	15	92	29,815
			ζ Leonis	11	13	40	91,8	29,816
			γ Leonis	7	40	5	91,6	29,817
			ϱ Leonis	2	50	30	91,6	29,820
			β Ursæ Maj.	44	14	50	90	29,830
			α Ursæ Maj.	49	57	15	90	29,835
			δ Leonis	8	25	40	88,7	29,840
			β Leonis	2	29	55	88,7	29,845
			γ Ursæ Maj.	41	36	5	88,7	
	10		☉ *L. L.*	4	49	50	96,5	29,875
		E	*π Leonis*	4	11	50	91,2	29,825
			η Leonis	4	31	37,5	91,2	
			Regulus	0	16	2,5	91,2	
			ζ Leonis	11	11	55	91	29,830
			γ Leonis	7	38	40	91	
			ϱ Leonis	2	52	15	90,8	29,832
			θ Navis	76	30	20	90,8	
			η Navis	71	48	30	90,7	29,836
			μ Navis	61	53	10	90,7	
			β Ursæ Maj.	44	13	45	90,6	29,840
			α Ursæ Maj.	49	35	57,5	90,6	
			κ Leonis	4	47	52,5	90,2	29,845
			ψ Ursæ Maj.	32	21	12,5	90,1	29,850
			ι Leonis	1	55	15	90	29,855
			ϱ Leonis	2	28	0	89,8	29,860
			β Virginis	10	20	15	89,8	
			γ Ursæ Maj.	41	34	27,5	89,8	
			δ Centauri	62	48	0	89,7	29,865
			ε Corvi	34	43	5	89,7	
			δ Ursæ Maj.	44	54	57,5	89,7	29,867
			η Virginis	12	46	12,5	89,6	
			α Crucis	75	9	42,5	89,6	29,870
			δ Corvi	28	37	2,5	89,6	
			γ Crucis	69	10	50	89,6	
			β Corvi	35	30	10	89,5	29,875
			γ Centauri	61	3	5	89,5	
			β Crucis	71	46	5	89,5	29,880
			ε Ursæ Maj.	43	49	20	89,5	
			Cor. Caroli	26	10	35	89,5	
	11		☉ *L. L.*	5	3	55	91,7	29,915
		W	*ϱ Leonis*	2	50	37,5	89,2	29,842
			κ Leonis	4	46	25	89,2	29,845
			δ Leonis	8	25	30	89,2	
			β Leonis	2	30	0	89	29,850
			β Virginis	10	18	20	89	
			γ Ursæ Maj.	41	36	5	89	
			δ Centauri	62	36	30	89	29,860
			ε Corvi	34	41	15	89	29,865
			δ Ursæ Maj.	44	56	13	88,9	29,872
			η Virginis	12	44	30	88,9	29,880
			δ Corvi	28	34	50	88,9	29,885
			γ Crucis	69	9	20	88,9	29,893
			β Corvi	35	28	35	88,8	29,900
			ε Ursæ Maj.	43	50	40	88,8	29,910
			Cor. Caroli	26	12	20	88,8	29,914
			ε Virginis	1	9	15	88,7	29,920
			θ Virginis	17	39	10	88,7	29,925
			γ Hydræ	35	17	30	88,7	29,935
	12		☉ *L. L.*	5	20	50	90,2	29,885
		E	*Regulus*	0	16	5	88,5	29,890
			ζ Leonis	11	11	52,5	88,5	
			γ Leonis	7	38	35	88,5	
			ϱ Leonis	2	52	37,5	88,5	
			β Ursæ Maj.	44	13	27,5	88,5	29,895
			δ Leonis	8	23	47,5	88,5	29,900
			ι Leonis	1	35	27,5	88,5	29,907
			β Leonis	2	28	2,5	88,5	29,915
			β Virginis	10	20	12,5	88,5	29,920
			γ Ursæ Maj.	41	34	25	88,5	29,925
	13		☉ *L. L.*	5	34	2,5	90	29,985
		W	*Regulus*	0	14	0	88,8	29,920
			ζ Leonis	11	13	47,5	88,8	

1824. Month.	Face.	Names.	Observed Zenith Distances. d.	m.	s.	Thermometer. d.	Barometer. Inches.
May 13	W	γ *Leonis*	7	40	20	88,8	29,920
		ϱ *Leonis*	2	50	40	88,8	29,922
		θ *Navis*	76	28	22,5	88,8	
		η *Navis*	71	46	55	88,8	29,925
		μ *Navis*	61	31	40	88,8	
		β *Leonis*	2	29	57,5	88,8	29,930
		δ *Ursæ Maj.*	44	56	15	88,7	29,932
		η *Virginis*	12	44	45	88,7	29,935
		α *Crucis*	75	7	50	88,7	
		δ *Corvi*	28	35	20	88,7	29,940
		γ *Crucis*	69	9	30	88,7	
		β *Corvi*	35	28	30	88,7	29,944
		α *Mus. Indic.*	81	8	32,5	88,7	29,948
		γ *Virginis*	13	32	15	88,6	29,950
		β *Crucis*	71	44	32,5	88,6	
		ε *Ursæ Maj.*	43	50	50	88,6	29,952
		Cor. Caroli	26	12	30	88,6	
		ε *Virginis*	1	8	55	88,6	29,955
		θ *Virginis*	17	38	42,5	88,5	29,960
		γ *Hydræ*	35	17	20	88,5	29,962
		ι *Centauri*	48	49	52,5	88,5	
		Spicæ Virginis	23	17	40	88,5	29,965
14		☉ *L. L.*	5	50	30	91	30,010
	E	*Regulus*	0	15	55	89,2	29,955
		ζ *Leonis*	11	11	57,5	89,1	29,958
		γ *Leonis*	7	38	20	89	29,960
		ϱ *Leonis*	2	53	15	89	29,965
		θ *Navis*	76	30	25	89	29,970
		η *Navis*	71	48	45	88,8	29,975
		μ *Navis*	61	33	15	88,8	
		β *Ursæ Maj.*	44	13	30	88,8	29,980
		α *Ursæ Maj.*	49	36	5	88,8	
		κ *Leonis*	4	48	50	88,8	29,985
		δ *Leonis*	8	23	20	88,8	29,990
		ι *Leonis*	1	35	40	88,8	29,995
		β *Leonis*	2	27	45	88,5	30,000
		ϑ *Virginis*	10	20	15	88,5	
		γ *Ursæ Maj.*	41	34	20	88,5	
		δ *Centauri*	62	48	15	88,5	
		ε *Corvi*	34	42	55	88,5	
		ζ *Ursæ Maj.*	44	54	35	88,5	
		η *Virginis*	12	46	27,5	88,5	
		α *Crucis*	75	9	52,5	88,5	30,002
		δ *Corvi*	28	36	55	88,5	
		γ *Crucis*	69	11	0	88,5	
		β *Corvi*	35	30	5	88,5	
		α *Mus. Indic.*	81	10	5	88,5	
		γ *Virginis*	13	34	0	88,5	
		β *Crucis*	71	46	10	88,5	
		ε *Ursæ Maj.*	43	49	5	88,5	30,005
		Cor. Caroli	26	10	42,5	88,5	
		ε *Virginis*	1	10	57,5	88,5	
		θ *Virginis*	17	40	42,5	88,5	
		γ *Hydræ*	35	19	20	88,5	
		ι *Centauri*	48	51	7,5	88,5	
		Spicæ Virginis	23	19	55	88,5	
15		☉ *L. L.*	6	2	45	91	30,020
	W	*Regulus*	0	13	50	89,8	29,955
		ζ *Leonis*	11	13	55	89,4	
		γ *Leonis*	7	40	22,5	89	
		ϱ *Leonis*	2	50	35	89	
		θ *Navis*	76	28	45	88,8	
		η *Navis*	71	46	40	88,8	
		μ *Navis*	61	31	35	88,8	
		β *Ursæ Maj.*	44	15	10	88,8	
		α *Ursæ Maj.*	49	37	40	88,8	
		κ *Leonis*	4	46	20	88,6	
		β *Crateris*	34	54	47,5	88,6	
		δ *Leonis*	8	25	30	88,6	
		ι *Leonis*	1	33	25	88,5	
		β *Leonis*	2	30	2,5	88,5	
		β *Virginis*	10	18	25	88,5	

1821. Month.		Face.	Names.	Observed Zenith Distances. d.	m.	s.	Thermometer. d.	Barometer. Inches.
May	15	W	γ *Ursæ Maj.*	41	36	10	88,5	29,955
			δ *Centauri*	62	46	20	88,4	29,960
			ε *Corvi*	34	41	22,5	88,4	
			δ *Ursæ Maj.*	44	56	30	88,4	
			η *Virginis*	12	44	50	88,4	29,965
			α *Crucis*	14	52	10	88,4	
			δ *Corvi*	28	34	55	88,3	29,970
			γ *Crucis*	69	9	20	88,3	
			β *Corvi*	35	28	30	88,3	29,975
			κ *Mus. Indic.*	81	8	40	88,3	
			γ *Virginis*	13	32	15	88,2	29,980
			β *Crucis*	71	44	22,5	88,2	
			ε *Ursæ Maj.*	43	50	45	88,2	29,995
			Cor. Caroli	26	12	25	88,2	
			ε *Virginis*	1	8	55	82,2	30,000
			θ *Virginis*	17	38	57,5	88	30,015
			γ *Hydræ*	35	17	25	88	
			ι *Centauri*	48	49	55	88	
			Spicæ Virginis	23	17	25	88	
	16	E	☉ *L. L.*	6	17	0	90,7	
			Regulus	0	15	57,5	88,2	29,947
			ζ *Leonis*	11	11	42,5	88,2	
			γ *Leonis*	7	38	25	88,2	29,945
			ϱ *Leonis*	2	52	50	88,2	
			θ *Navis*	76	31	2,5	88,1	29,940
			η *Navis*	71	48	52,5	88,1	
			β *Ursæ Maj.*	44	13	22,5	88,1	
			α *Ursæ Maj.*	49	35	52,5	88,1	
			κ *Leonis*	4	48	10	88,1	
			β *Crateris*	34	56	45	88,1	
			δ *Leonis*	8	23	30	88	29,935
			ι *Leonis*	1	35	25	88	
			β *Leonis*	2	27	57,5	88	
			β *Virginis*	10	20	5	88	
			γ *Ursæ Maj.*	41	34	10	88	
			δ *Centauri*	62	48	15	88	29,940
			ε *Corvi*	34	42	50	88	
			δ *Ursæ Maj.*	44	55	5	87,9	29,945
			η *Virginis*	12	46	22,5	87,9	
			α *Crucis*	75	9	35	87,9	29,950
			δ *Corvi*	28	37	5	87,9	
			γ *Crucis*	69	11	0	87,9	29,957
			β *Corvi*	35	30	20	87,9	29,960
			κ *Mus. Indic.*	81	10	5	87,9	
			γ *Virginis*	13	33	55	87,8	29,965
			β *Crucis*	71	46	15	87,8	
			ε *Ursæ Maj.*	43	49	5	87,8	
			Cor. Caroli	26	10	15	87,8	29,968
			ε *Virginis*	1	10	45	87,8	29,970
			θ *Virginis*	17	40	37,5	87,8	29,975
			γ *Hydræ*	35	19	25	87,8	
			ι *Centauri*	48	51	20	87,8	29,980
			Spicæ Virginis	23	19	40	87,8	
	17	W	☉ *L. L.*	6	32	35	90,5	30,015
			Regulus	0	13	45	89	29,945
			ζ *Leonis*	11	14	0	89	
			γ *Leonis*	7	40	20	89	
			ϱ *Leonis*	2	50	30	89	29,942
			θ *Navis*	76	28	40	89	29,945
			η *Navis*	71	46	50	89	
			β *Ursæ Maj.*	44	15	10	88,8	
			α *Ursæ Maj.*	49	37	35	88,8	
			κ *Leonis*	4	46	15	88,8	
			β *Crateris*	34	54	20	88,8	
			δ *Leonis*	8	25	40	88,8	
			ι *Leonis*	1	33	15	88,5	29,950
			β *Leonis*	2	30	12,5	88,5	29,945
			β *Virginis*	10	18	35	88,5	
			γ *Ursæ Maj.*	41	36	12,5	88,5	
			δ *Centauri*	62	46	30	88,5	29,950
			ε *Corvi*	34	41	20	88,3	29,955
			δ *Ursæ Maj.*	44	56	10	88,3	29,960

1824. Month.	Face.	Names.	Observed Zenith Distances. d.	m.	s.	Thermometer. d.	Barometer. Inches.
May 17	W	η *Virginis*	12	44	30	88,3	29,970
		β *Crucis*	75	7	45	88,3	29,978
		ε *Ursæ Maj.* . . .	43	50	42,5	88,3	29,980
		Cor. Caroli	26	12	30	88,1	29,982
		ι *Virginis*	1	9	10	88,1	29,985
		δ *Virginis*	17	39	15	88,1	29,990
		γ *Hydræ*	35	17	32,5	88	29,995
		ι *Centauri*	48	49	50	88	30,000
		Spicæ Virginis . .	23	17	30	88	30,005
		ζ *Virginis*	12	44	42,5	88	
		ε *Centauri*	65	35	40	88	30,010
18	E	⊙ *L. L.*	6	44	0	91,5	30,025
		Regulus . . .	0	16	2,5	90	29,955
		ε *Leonis*	2	52	35	89,8	
		δ *Navis*	76	30	25	89,8	
		η *Navis*	71	48	45	89,6	
		β *Ursæ Maj.* . . .	44	13	32,5	89,5	29,960
		α *Ursæ Maj.* . . .	49	35	55	89,5	
		κ *Leonis*	4	48	25	89,5	
		β *Crateris*	34	56	50	89	29,965
		σ *Leonis*	6	5	45	89	
		τ *Leonis*	9	15	52,5	89	
		ν *Leonis*	12	56	20	89	
		ι *Leonis* . . .	1	35	40	89	
		β *Leonis* . . .	2	28	0	88,7	29,970
		β *Virginis*	10	20	15	88,7	
		γ *Ursæ Maj.* . . .	41	34	35	88,7	
		β *Centauri*	69	48	10	88,7	29,975
		δ *Ursæ Maj.* . . .	44	54	40	88,7	29,979
		η *Virginis*	12	46	25	88,7	
		α *Crucis* . . .	75	9	35	88,7	29,985
		δ *Corvi*	28	37	7,5	88,7	
		β *Corvi*	35	30	25	88,7	
		α *Mus. Indic.* . . .	81	10	20	88,7	29,988
		γ *Virginis*	13	33	45	88,7	29,990
		β *Crucis*	71	46	17,5	88,7	29,993
		ε *Ursæ Maj.* . . .	43	49	5	88,7	
		Cor. Caroli . . .	26	10	7,5	88,7	29,996
		ε *Virginis*	1	10	47,5	88,7	29,998
		δ *Virginis*	17	40	55	88,7	30,000
		γ *Hydræ* . . .	35	19	30	88,7	30,002
		ι *Centauri*	49	50	55	88,7	
		Spicæ Virginis . .	23	19	40	88,7	30,005
		ζ *Virginis*	12	46	45	88,7	
		ε *Centauri*	65	37	10	88,7	
19	W	⊙ *L. L.*	6	59	35	91,5	30,030
		Regulus . . .	0	13	55	89	29,935
		ε *Leonis*	2	50	35	89	29,940
		μ *Navis*	61	31	40	89,2	29,945
		β *Ursæ Maj.* . . .	44	14	55	89,2	29,950
		α *Ursæ Maj.* . . .	49	37	25	89,2	
		κ *Leonis*	4	46	10	89,4	29,955
		β *Crateris*	34	54	50	89,4	29,960
		σ *Leonis*	6	3	57,5	89,4	
		ι *Leonis*	1	33	25	89,5	29,965
		τ *Leonis*	9	13	45	89,5	
		ν *Leonis*	12	54	30	89,5	
		β *Leonis*	2	30	5	89,5	29,970
		β *Virginis*	10	18	15	89,3	
		γ *Ursæ Maj.* . . .	41	36	15	89,3	29,975
		ε *Corvi*	34	41	7,5	89,3	29,980
		δ *Ursæ Maj.* . . .	44	56	5	89,1	29,985
		η *Virginis*	12	44	25	89,1	29,990
		α *Crucis*	75	7	50	89	29,992
		β *Corvi*	35	28	35	89	29,995
		α *Mus. Indic.* . . .	81	8	20	89	30,000
		γ *Virginis*	13	31	47,5	88,8	30,004
		β *Crucis*	71	44	25	88,8	30,008
		δ *Virginis*	8	41	37,5	88,8	30,010
		ε *Virginis*	1	8	55	88,6	30,015
		δ *Virginis*	17	39	15	88,6	
		γ *Hydræ*	35	17	45	88,5	30,020

1824. Month.		Face.	Names.	Observed Zenith Distances. d.	m.	s.	Thermometer. d.	Barometer. Inches.
May	19	W	*Spicæ Virginis* . .	23	17	30	88,5	30,020
			ζ *Virginis*	12	44	37,5	88,5	
	20	E	⊙ *L. L.*	7	9	37,5	93	30,050
			ϱ *Leonis*	2	52	25	90,5	29,993
			β *Ursæ Maj.*	44	13	25	90,5	
			κ *Leonis* . . .	4	48	30	90,5	
			σ *Leonis* . . .	6	5	55	90,2	29,940
			ι *Leonis* . . .	1	35	45	90,2	
			τ *Leonis* . . .	9	16	7,5	90,2	
			ν *Leonis* . . .	12	56	15	90	29,942
			β *Virginis* . . .	10	20	12,5	90	
			γ *Ursæ Maj.* . . .	41	34	30	89,7	29,945
			ε *Corvi* . . .	34	42	52,5	89,7	
			δ *Ursæ Maj.* . . .	44	55	0	89,7	
			η *Virginis* . . .	12	46	25	89,6	29,950
			δ *Corvi* . . .	27	37	5	89,6	
			ϱ *Corvi*	35	30	15	89,6	
			γ *Virginis*	13	33	50	89,6	
			δ *Virginis*	8	43	50	89,6	29,952
			ε *Virginis*	1	10	45	89,6	
			θ *Virginis*	17	40	59	89,5	
			γ *Hydræ*	35	19	22,5	89,5	
			Spicæ Virginis . .	23	19	30	89,5	29,955
			ζ *Virginis*	12	46	40	89,5	
			ε *Centauri*	65	37	25	89,5	
			ζ *Centauri*	59	28	50	89,5	
	21	W	⊙ *L. L.*	7	24	5	93,8	29,918
			μ *Navis*	61	31	35	90	29,854
			σ *Leonis*	6	3	40	90	29,855
			ι *Leonis*	1	33	15	89,8	
			τ *Leonis*	9	13	45	89,8	
			ν *Leonis*	12	54	25	89,6	29,860
			β *Virginis*	10	18	25	89,6	
			γ *Ursæ Maj.* . . .	41	36	5	89,6	
			δ *Ursæ Maj.* . . .	44	56	20	89,6	29,862
			η *Virginis*	12	44	40	89,4	
			δ *Corvi*	28	34	57,5	89,4	29,865
			γ *Crucis*	60	9	20	89,4	29,870
			β *Corvi*	35	28	37,5	89,4	29,875
			γ *Virginis*	13	31	57,5	89,4	29,880
			β *Crucis*	71	44	35	89,2	29,885
			δ *Virginis*	8	41	42,5	89,2	29,890
			ε *Virginis*	1	9	10	89,2	29,895
			θ *Virginis*	17	39	2,5	89,2	29,900
			γ *Hydræ*	35	17	37,5	89,2	29,905
			Spicæ Virginis . .	23	17	45	89	29,915
			ζ *Virginis*	12	44	40	89	
			ε *Centauri*	65	36	15	89	
			η *Ursæ Maj.* . . .	37	7	35	89	
			ζ *Centauri*	59	27	20	89	
	22	E	⊙ *L. L.*	7	33	55	96	29,878
	23	W	⊙ *L. L.*	7	47	42,5	93	29,915
	24	E	⊙ *L. L.*	7	57	12,5	95,5	29,905
	25	W	⊙ *L. L.*	8	9	52,5	90,5	29,904
		E	α *Ursæ Maj.* . . .	44	13	25	88,5	29,854
			ε *Ursæ Maj.* . . .	49	35	57,5	88,5	
			κ *Leonis*	4	48	10	88,3	29,860
			θ *Leonis*	3	17	55	88,3	
			ϱ *Leonis*	6	5	40	88,3	29,865
			ι *Leonis*	1	35	40	88,3	
			τ *Leonis*	9	15	45	88,1	29,870
			ν *Leonis*	12	56	10	88,1	
			β *Leonis*	2	28	10	88	29,875
			β *Virginis*	10	20	17,5	88	
			γ *Ursæ Maj.* . . .	41	34	27,5	88	
			β *Centauri*	62	48	7,5	88	
			β *Crucis*	70	49	12,5	87,8	29,880
			η *Virginis*	12	46	25	87,8	29,882
			α *Crucis*	75	9	55	87,6	29,890
			γ *Crucis*	69	10	35	87,6	
			ϱ *Corvi*	35	30	10	87,4	29,892
			α *Mus. Indic.* . . .	81	10	10	87,4	29,895

1824. Month.		Face.	Names.	Observed Zenith Distances. d.	m.	s.	Thermometer. d.	Barometer. Inches.
May	25	E	γ *Centauri* . . .	61	2	55	87,4	29,900
			δ *Virginis* . . .	8	43	32,5	87,2	
			ε *Virginis*	1	10	52,5	87,2	29,902
			θ *Virginis*	17	40	55	87,2	
			ι *Centauri* . . .	48	50	42,5	87,5	29,905
			ζ *Ursæ Maj.* . . .	42	44	55	87,5	
			ζ *Virginis*	12	46	25	87,5	
			ε *Centauri*	65	37	45	87,8	29,910
			η *Ursæ Maj.* . . .	37	6	5	87,8	
			ζ *Centauri*	59	28	45	87,8	
			η *Bootis*	6	11	15	88	29,915
			β *Centauri*	72	33	55	88	
	26	W	β *Ursæ Maj.* . . .	44	15	10	88	29,900
			α *Ursæ Maj.* . . .	49	37	22,5	88	
			κ *Leonis*	4	46	30	88	29,895
			δ *Leonis* . . .	3	20	15	88	
			σ *Leonis* . . .	6	3	50	87,8	
			ι *Leonis* . . .	1	33	30	87,8	29,890
			τ *Leonis* . . .	9	13	55	87,8	
			υ *Leonis*	12	54	35	87,8	29,885
			β *Leonis* . . .	2	30	7,5	87,5	29,880
			β *Virginis* . . .	10	18	17,5	87,5	
			γ *Ursæ Maj.* . . .	41	36	5	87,5	
			β *Centauri* . . .	62	46	37,5	87,5	29,885
			ε *Corvi*	34	41	20	87,4	29,890
			β *Crucis* . . .	70	47	42,5	87,4	29,896
			η *Virginis* . . .	12	44	42,5	87,4	29,898
			α *Crucis*	75	7	35	87,3	29,900
			γ *Crucis*	69	9	15	87,3	29,911
			δ *Corvi*	35	28	50	87,3	29,913
			α *Mus. Indic.* . . .	81	8	35	87,3	29,915
			γ *Centauri* . . .	61	1	47,5	87,3	29,922
			β *Crucis*	71	44	40	87,1	29,929
			δ *Virginis*	8	41	55	87,1	29,930
			ι *Centauri*	48	49	37,5	87,1	29,935
			ζ *Ursæ Maj.* . . .	42	46	35	87	29,945
			ζ *Virginis*	12	44	55	87	
			η *Ursæ Maj.* . . .	37	7	25	87	
			ζ *Centauri*	59	27	25	87	
			η *Bootis*	6	13	15	87	
	27	E	⊙ *L. L.*	8	29	15	92	29,955
			β *Ursæ Maj.* . . .	44	13	35	88,5	29,863
			α *Ursæ Maj.* . . .	49	36	7,5	88,5	
			θ *Leonis*	3	18	5	88,5	29,870
			σ *Leonis*	6	5	35	88,1	29,885
			ι *Leonis*	1	35	30	88,1	
			τ *Leonis*	9	15	55	88	
			υ *Leonis*	12	56	20	88	
			β *Leonis*	2	28	5	88	
			γ *Ursæ Maj.* . . .	41	34	45	88	
	28	W	⊙ *L. L.*	8	40	27,5	94,5	29,995
	29	E	⊙ *L. L.*	8	48	30	93,7	29,915
		W	β *Ursæ Maj.* . . .	44	14	50	91	29,985
			α *Ursæ Maj.* . . .	49	37	17,5	91	
			β *Leonis*	2	29	57,5	90,8	29,980
			β *Virginis*	10	18	25	90,8	29,975
			γ *Ursæ Maj.* . . .	41	36	5	90,6	29,970
			β *Centauri* . . .	62	46	35	90,6	29,962
			ε *Corvi*	34	41	10	90,4	29,955
			β *Crucis* . . .	70	47	40	90,4	29,950
			η *Virginis*	12	44	40	90,2	29,945
			α *Crucis*	75	8	15	90,2	29,940
			γ *Crucis*	69	9	15	90	29,935
			β *Corvi*	35	28	40	90	29,930
			α *Mus. Indic.* . . .	81	8	30	89,8	29,925
			γ *Centauri* . . .	61	1	35	89,8	29,920
			β *Crucis* . . .	71	44	35	89,6	29,915
			δ *Virginis*	8	42	10	89,6	29,910
			ε *Virginis* . . .	1	9	20	89,4	29,905
			θ *Virginis* . . .	17	39	20	89,4	
			ι *Centauri*	48	49	35	89,4	
			ζ *Ursæ Maj.* . . .	42	46	30	89,4	29,908

1824. Month.		Face.	Names.	Observed Zenith Distances. d.	m.	s.	Thermometer. d.	Barometer. Inches.
May	29	W	ζ *Virginis*	12	45	10	89,2	29,908
			ε *Centauri*	65	36	7,5	89,2	29,910
			η *Ursæ Maj.*	37	7	20	89,2	
			ζ *Centauri*	59	27	32,5	89,2	
			β *Centauri*	72	32	0	89,2	
			θ *Centauri*	48	32	37,5	89	29,915
			α *Draconis*	52	8	10	89	
			κ *Virginis*	22	30	10	89	
			Arcturus	7	2	30	89	
			λ *Virginis*	25	36	37,5	89	
	30	E	β *Leonis*	2	28	20	90,5	29,900
			β *Virginis*	10	21	0	90,5	
			γ *Ursæ Maj.*	41	34	40	90,5	
			δ *Centauri*	62	48	7,5	90,5	29,907
			ε *Corvi*	34	43	10	90,2	
			δ *Crucis*	70	49	5	90,2	29,910
			η *Virginis*	12	46	10	90,2	
			α *Crucis*	75	9	40	90,2	
			γ *Crucis*	69	10	27,5	90,2	29,914
			β *Corvi*	35	30	15	90	
			α *Mus. Indic.*	81	10	10	90	29,916
			γ *Centauri*	61	3	2,5	90	
			β *Crucis*	71	46	15	90	29,920
			δ *Virginis*	8	43	50	90	
			ε *Virginis*	1	10	45	90	29,925
			ι *Centauri*	48	50	47,5	90	
			ζ *Ursæ Maj.*	42	45	5	89	29,928
			ζ *Virginis*	12	46	40	89	
			ε *Centauri*	65	37	55	89	29,930
			η *Ursæ Maj.*	37	6	7,5	89	
			θ *Virginis*	17	40	40	89	
			ζ *Centauri*	59	28	50	89	29,935
			β *Centauri*	72	33	27,5	89	
			θ *Centauri*	48	33	55	89	29,940
			α *Draconis*	52	7	22,5	89	29,945
			κ *Virginis*	22	31	50	89	
			Arcturus	7	1	5	89	29,950
			λ *Virginis*	25	38	10	89	
	31		☉ *L. L.*	9	6	20	95	29,940
		W	β *Leonis*	2	29	55	90	29,898
			β *Virginis*	10	18	42,5	90	
			γ *Ursæ Maj.*	41	35	45	90	
			δ *Centauri*	62	47	0	89,8	
			δ *Crucis*	70	47	40	89,8	
			α *Crucis*	75	8	7,5	89,8	
			γ *Crucis*	69	9	25	89,6	
			γ *Centauri*	61	1	45	89,6	
			β *Crucis*	71	44	40	89,6	
			δ *Virginis*	8	42	17,5	89,4	29,900
			ε *Virginis*	1	9	25	89,4	
			ι *Centauri*	48	49	50	89,4	
			ζ *Ursæ Maj.*	42	46	20	89,2	
			ζ *Virginis*	12	44	50	89,2	
			ε *Centauri*	65	36	7,5	89,2	
			η *Ursæ Maj.*	37	7	30	89,2	
			ζ *Centauri*	59	27	27,5	89	29,905
			η *Bootis*	6	12	57,5	89	
			β *Centauri*	72	31	57,5	89	
			θ *Centauri*	48	32	47,5	88,8	29,910
			α *Draconis*	52	8	22,5	88,8	
			κ *Virginis*	22	30	5	88,6	
			Arcturus	7	2	25	88,6	29,912
			λ *Virginis*	25	36	45	88,5	
			ν *Centauri*	54	25	15	88,5	29,915
			α *Centauri (Upper)*	73	6	40	88,5	
June	1		☉ *L. L.*	9	16	20	96	29,930
		E	β *Leonis*	2	28	25	90	29,865
			β *Virginis*	10	20	10	90	
			δ *Centauri*	62	48	0	90	29,870
			δ *Crucis*	70	49	20	90	
			α *Crucis*	75	9	35	89,8	
			γ *Crucis*	69	10	25	89,8	29,875

1824. Month.		Face.	Names.	Observed Zenith Distances. d.	m.	s.	Thermometer. d.	Barometer. Inches.
June	1	E	γ *Centauri*	61	43	0	89,8	29,875
			δ *Virginis*	8	43	35	89,8	29,880
			ε *Virginis*	1	10	50	89,6	
			ι *Centauri*	48	51	5	89,6	29,885
			ζ *Ursæ Maj.*	42	44	55	89,6	
			ζ *Virginis*	12	46	10	89,6	29,900
			ε *Centauri*	65	37	25	89,5	29,905
			η *Ursæ Maj.*	37	6	5	89,5	
			ζ *Centauri*	59	28	45	89,3	29,910
			η *Bootis*	6	11	27,5	89,3	
			β *Centauri*	72	33	32,5	89,3	29,915
			θ *Centauri*	48	34	10	89,2	
			α *Draconis*	52	7	5	89,2	29,920
			κ *Virginis*	22	31	40	89,2	
			Arcturus	7	0	55	89	29,925
			λ *Virginis*	25	38	17,5	89	
			η *Centauri*	54	26	30	89	
			α *Centauri (Upper)*	73	8	42,5	89	
	2		☉ *L. L.*	9	22	30	96,2	29,935
	3	W	☉ *L. L.*	9	31	52,5	96	29,915
			β *Leonis*	2	29	57,5	91	29,865
			β *Virginis*	10	18	27,5	91	
			α *Corvi*	36	48	30	91	
			δ *Ursæ Maj.*	44	56	10	90,8	
			α *Crucis*	75	8	10	90,8	
			δ *Corvi*	28	34	45	90,8	
			β *Corvi*	35	28	20	90,6	
			γ *Virginis*	13	32	17,5	90,6	29,867
			β *Crucis*	71	44	37,5	90,6	
			ε *Ursæ Maj.*	43	50	35	90,5	
			Cor. Caroli	26	12	12,5	90,5	
			ε *Virginis*	1	9	15	90,5	29,868
			ι *Centauri*	48	49	50	90,2	
			Spicæ Virginis	23	17	50	90	
			ζ *Virginis*	12	45	10	90	
	4	E	☉ *L. L.*	9	37	30	92,2	29,920
			β *Leonis*	2	28	15	90,2	29,857
			β *Virginis*	10	20	0	90,2	
			γ *Ursæ Maj.*	41	34	40	90,8	
			α *Corvi*	36	49	55	90,8	29,860
			δ *Ursæ Maj.*	44	55	5	90,8	
			α *Crucis*	75	9	40	90	29,862
			β *Corvi*	35	30	5	90	
			γ *Virginis*	13	33	57,5	90	
			β *Crucis*	71	46	2,5	90	
			ε *Ursæ Maj.*	43	49	30	90	
			Cor. Caroli	26	10	22,5	90	29,865
			ε *Virginis*	1	10	50	89,8	
			ι *Centauri*	48	50	50	89,8	
			Spicæ Virginis	23	19	22,5	89,8	
			ζ *Virginis*	12	46	25	89,8	
			ε *Centauri*	65	37	27,5	89,8	
			η *Ursæ Maj.*	37	6	5	89,8	
			η *Bootis*	6	11	35	89,7	29,868
			β *Centauri*	72	33	25	89,7	
			θ *Centauri*	48	34	0	89,7	29,870
			α *Draconis*	52	7	2,5	89,7	
			κ *Virginis*	22	32	5	89,7	29,875
			Arcturus	7	0	30	89,7	
			η *Centauri*	54	26	40	89,7	29,878
			α *Centauri (Upper)*	73	8	35	89,7	
			α *Lupi*	59	40	52,5	89,7	29,880
			ζ *Trion.*	1	23	45	89,7	
			ε *Trion.*	14	43	45	89,7	
	5	W	☉ *L. L.*	9	46	0	94,5	29,900
			β *Leonis*	2	29	45	90	29,835
			β *Virginis*	10	18	30	90	
			γ *Ursæ Maj.*	41	36	10	90	29,837
			α *Corvi*	36	48	30	90	29,840
			δ *Ursæ Maj.*	44	56	15	90	29,842
			α *Crucis*	75	8	0	89,8	
			δ *Corvi*	28	35	20	89,8	29,843

1824. Month.		Face.	Names.	Observed Zenith Distances d.	m.	s.	Thermometer. d.	Barometer. Inches.
June	5	W	β Corvi	35	28	35	89,8	29,843
			α Mus. Indic.	81	8	32,5	89,8	29,845
			γ Virginis	13	32	15	89,8	
			β Crucis	71	44	50	89,8	
			ι Ursæ Maj.	43	50	30	89,8	
			Cor. Caroli	26	12	5	89,8	29,847
			ι Virginis	1	9	25	89,8	
			γ Hydræ	35	17	47,5	89,8	29,850
			ι Centauri	48	49	45	89,8	
			Spicæ Virginis	23	17	55	89,8	
			ζ Virginis	12	45	2,5	89,6	29,852
			ε Centauri	65	35	57,5	89,6	
			η Ursæ Maj.	37	7	40	89,6	
			η Bootis	6	13	10	89,6	
			β Centauri	72	32	10	89,5	29,855
			θ Centauri	48	32	55	89,5	
			α Draconis	52	8	25	89,5	
			κ Virginis	22	30	5	89,5	29,857
			Arcturus	7	2	50	89,5	
			η Centauri	54	25	15	89,2	
			α Centauri (Upper)	73	6	50	89,2	29,860
			α Lupi	59	39	45	89,2	
			ζ Trion.	1	25	55	89,2	
			ε Trion.	14	45	30	89,2	
	6	E	⊙ L. L.	9	30	40	96	29,890
	7	W	⊙ L. L.	9	58	25	95	29,925
		E	δ Leonis	2	28	10	89	29,900
			β Virginis	10	19	45	89	
			γ Ursæ Maj.	41	34	35	89	29,895
			α Corvi	36	49	45	89,8	
			δ Ursæ Maj.	45	5	7,5	89,8	29,890
			α Crucis	75	9	30	89,8	29,885
			δ Corvi	28	37	5	89,7	
			β Corvi	35	30	15	89,7	29,880
			γ Virginis	13	33	45	89,7	
			ι Ursæ Maj.	43	49	30	89,7	
			Cor. Caroli	26	10	10	89,7	
			ε Virginis	1	10	40	89,7	
			γ Hydræ	35	19	10	89,7	29,882
			ι Centauri	48	51	5	89,7	
			Spicæ Virginis	23	19	15	89,7	29,885
			ζ Virginis	12	46	45	89,7	
			ε Centauri	65	37	27,5	89,6	29,887
			η Ursæ Maj.	37	6	12,5	89,6	29,890
			β Centauri	72	33	35	89,6	
			θ Centauri	48	34	5	89,6	29,895
			α Draconis	52	7	15	89,6	
			κ Virginis	22	31	45	89,6	
			Arcturus	7	0	55	89,6	29,900
			λ Virginis	25	38	30	89,5	
			η Centauri	54	26	40	89,5	29,905
			α Centauri	73	8	35	89,5	29,910
			α Lupi	59	41	10	89,5	
			ζ Trion.	1	23	55	89,5	29,915
			ε Trion.	14	43	55	89,5	
			α Libræ	28	23	5	89,5	
			β Lupi	55	29	7,5	89,5	
	8		⊙ L. L.	10	2	25	94	29,930
		W	δ Leonis	2	29	42,5	89,4	29,855
			β Virginis	10	18	35	89,4	
			γ Ursæ Maj.	41	35	55	89,4	
			α Corvi	36	48	15	89,4	
			δ Ursæ Maj.	44	56	17,5	89,2	29,850
			α Crucis	75	8	2,5	89,2	
			δ Corvi	28	35	25	89,2	
			β Corvi	35	28	40	89,2	29,847
			α Mus. Indic.	81	8	37,5	89	
			γ Virginis	13	32	12,5	89	
			β Crucis	71	44	55	89	
			ι Ursæ Maj.	43	50	35	89	29,845
			Cor. Caroli	26	12	15	89	
			ε Virginis	1	9	12,5	89	

1824. Month.	Face.	Names.	Observed Zenith Distances. d.	m.	s.	Thermometer. d.	Barometer. Inches.
June 8	W	γ *Hydræ*	35	17	35	89	29,845
		ι *Centauri*	48	49	50	89	
		Spicæ Virginis . .	23	18	2,5	89	
		ζ *Virginis*	12	49	10	89	29,850
		ε *Centauri*	65	35	50	88,8	29,852
		η *Ursæ Maj.* . . .	37	7	35	88,8	29,855
		β *Centauri*	72	32	10	88,6	29,860
		θ *Centauri*	48	33	5	88,4	29,862
		α *Draconis* . . .	52	8	25	88,4	
		κ *Virginis*	22	29	57,5	88,4	
		Arcturus . . .	7	2	35	88,4	
		λ *Virginis*	25	36	35	88,4	
		γ *Trion.*	54	25	5	88,4	
		α *Lupi*	73	7	5	88,4	
		ζ *Trion.*	1	25	40	88,4	
		ε *Trion.*	14	45	20	88,4	
		α *Libræ*	28	21	30	88,4	
		β *Lupi*	55	27	40	88,4	
		κ *Centauri*	54	26	10	88,4	
		β *Ursæ Min.* . . .	61	37	0	88,4	
		γ *Scorpionis* . . .	37	38	20	88,4	
		β *Trion.*	28	0	47,5	88,4	
9		⊙ *L. L.*	10	9	25	94,7	29,870
	E	β *Leonis*	2	28	5	88	29,789
		β *Virginis*	10	19	55	88	
		γ *Ursæ Maj.* . . .	41	34	40	88	29,800
		α *Corvi*	36	50	22,5	87,8	
		δ *Ursæ Maj.* . . .	44	54	45	87,8	29,812
		α *Crucis*	75	9	35	87,8	
		δ *Corvi*	28	37	30	87,6	29,825
		β *Corvi*	30	30	25	87,6	29,835
		γ *Virginis*	13	33	52,5	87,6	
		ε *Ursæ Maj.* . . .	43	49	15	87,6	29,830
		Cor. Caroli . . .	26	10	15	87,6	29,826
		ε *Virginis*	1	10	50	87,7	
		γ *Hydræ*	35	19	5	87,7	29,820
		Spicæ Virginis . .	23	19	25	87,7	
		ζ *Virginis*	12	46	55	87,8	29,818
		ε *Centauri* . . .	65	37	45	87,8	
		η *Ursæ Maj.* . . .	37	6	5	87,8	29,809
		ζ *Centauri*	50	28	45	88	
		β *Centauri*	72	33	30	88	29,805
		θ *Centauri*	48	34	0	88,2	
		κ *Virginis*	22	31	50	88,2	29,800
		Arcturus . . .	7	0	35	88,2	
10	W	γ *Ursæ Maj.* . . .	41	36	10	87	29,755
		δ *Centauri*	62	46	55	87	
		η *Virginis*	12	44	30	87	
		β *Corvi*	35	28	50	87	
		δ *Virginis*	8	42	0	87	
		ε *Virginis*	1	9	5	87	
		θ *Virginis*	17	39	25	87,5	
		γ *Hydræ*	35	17	40	87,5	29,760
		Spicæ Virginis . .	23	17	45	87,5	
		ζ *Virginis*	12	45	2,5	87	
		η *Ursæ Maj.* . . .	37	7	25	87	
		β *Centauri*	72	32	5	87	29,762
		θ *Centauri*	48	33	0	87	
		α *Draconis* . . .	52	8	25	87	29,765
		κ *Virginis*	22	30	2,5	87	
		Arcturus . . .	7	2	35	87	
		λ *Virginis*	25	36	45	87	29,770
		γ *Trion.*	26	0	40	87	29,772
		α *Lupi*	59	39	45	87	29,775
		ζ *Trion.*	1	25	37,5	87	
		ε *Trion.*	14	45	30	87	
		α *Libræ*	28	21	10	87	29,780
		β *Lupi*	55	27	30	87	
		β *Ursæ Min.* . . .	61	47	15	87	
		γ *Scorpionis* . . .	37	38	10	87	29,786
		β *Trion.*	28	1	15	87	
12	E	⊙ *L. L.*	10	20	30	89,7	29,860

1824. Month.		Face.	Names.	Observed Zenith Distances. d.	m.	s.	Thermometer. d.	Barometer. Inches.
June	12	E	γ Crucis	69	10	32,5	87,5	29,800
			β Crucis	75	46	27,5	87,5	29,804
			δ Virginis	8	43	40	87,5	
			ε Virginis	1	10	55	87,5	29,806
			δ Virginis	17	40	35	87,5	29,809
			γ Hydræ	35	19	15	87,5	
			ι Centauri	48	51	2,5	87,3	29,810
			Spicæ Virginis	23	19	40	87,3	
			ζ Virginis	12	46	42,5	87,3	29,815
			ε Centauri	65	37	35	87,3	
			η Ursæ Maj.	37	6	17,5	87,3	29,818
			ζ Centauri	59	28	55	87,3	
			η Bootis	6	11	22,5	87,3	29,820
			β Centauri	72	33	40	87,1	29,825
			θ Centauri	48	33	55	87,1	
			α Draconis	52	7	20	87,1	29,827
			κ Virginis	22	31	57,5	87	
			Arcturus	7	0	45	87	29,830
			γ Trion.	64	0	40	87	
			α Centauri (Aust.)	73	9	5	87	29,832
			α Lupi	59	41	15	87	29,835
			ε Trion.	14	43	50	87	
			α Libræ	28	23	10	87	
	13	W	⊙ L. L.	10	26	5	93	29,830
	15	E	⊙ L. L.	10	30	2,5	94	29,940
		W	α Crucis	75	8	12,5	91,5	29,838
			γ Crucis	69	9	25	91,5	29,840
			β Corvi	35	28	55	91,5	29,845
			γ Centauri	61	1	47,5	91,5	29,850
			β Crucis	71	44	52,5	91,2	29,855
			δ Virginis	8	42	30	91,2	29,860
			ε Virginis	1	9	12,5	91,2	
			θ Virginis	17	39	30	91,2	29,863
			γ Hydræ	35	17	45	91,2	
			ζ Centauri	59	27	37,5	91,1	29,870
			β Centauri	72	32	5	91,1	
			θ Centauri	48	32	52,5	91,1	29,875
			κ Virginis	22	30	5	91	29,880
			Arcturus	7	2	22,5	91	29,888
			λ Virginis	25	36	40	91	
	16		⊙ L. L.	10	34	27,5	94,5	29,915
		E	α Crucis	14	50	20	90	29,840
			γ Crucis	20	49	20	90	29,845
			β Corvi	35	29	55	90	29,850
			γ Centauri	61	3	5	89,9	29,852
			β Crucis	71	46	5	89,9	29,854
			δ Virginis	8	43	35	89,9	29,860
			ε Virginis	1	10	42,5	89,8	29,862
			θ Virginis	17	40	35	89,8	29,865
			γ Hydræ	35	19	2,5	89,8	29,868
	17	W	η Ursæ Maj.	37	7	42,5	92	29,800
			η Bootis	6	13	17,5	91,8	29,817
			α Draconis	52	8	35	91,5	29,835
	18	E	⊙ L. L.	10	36	30	94,7	29,915
	20	W	⊙ L. L.	10	40	5	94,5	29,960
			γ Hydræ	35	17	50	90	29,900
			ι Centauri	48	49	52,5	90	
			Spicæ Virginis	23	11	15	89,8	29,905
			ζ Virginis	12	44	55	89,8	
			ε Centauri	65	36	0	89,7	29,910
			ζ Centauri	59	27	32,5	89,7	
			β Centauri	72	32	5	89,6	29,905
			θ Centauri	48	32	55	89,6	
			Arcturus	7	2	20	89,5	29,900
			γ Trion.	26	0	52,5	89,5	
			α Centauri (Aust.)	73	7	17,5	89,3	
			ε Trion.	14	45	40	89,3	29,902
			α Libræ	28	21	20	89	
			α Lupi	55	27	37,5	89	
			γ Scorpionis	37	37	57,5	89	29,905
			ε Trion.	28	1	0	89	
	21	E	⊙ L. L.	10	39	5	95	29,920

1824. Month.		Face.	Names.	Observed Zenith Distances. d.	m.	s.	Thermometer. d.	Barometer. Inches.
June	21	E	*ε Virginis*	1	10	42,5	92	29,855
			γ Hydræ	35	18	55	91,6	
			ι Centauri	48	50	50	91,3	29,860
			Spicæ Virginis	23	19	10	91	29,865
			ζ Virginis	12	46	15	90,7	29,870
			ζ Centauri	59	28	30	90,7	29,880
			η Bootis	6	11	57,5	90,3	29,885
			β Centauri	72	33	17,5	90,3	29,890
			θ Centauri	48	33	35	90	29,895
			κ Lupi	59	40	45	90	29,900
	22	W	⊙ *L. L.*	10	39	55	96	
	23	E	⊙ *L. L.*	10	38	5	95,5	29,905
	24	W	*ζ Virginis*	12	45	5	90	29,850
			η Ursæ Maj.	37	7	20	89,8	29,860
			η Bootis	6	13	25	89,8	29,865
			Arcturus	7	2	25	89,4	
			α Centauri	73	7	30	89,2	29,870
			α Lupi	59	39	45	89	29,875
	25		⊙ *L. L.*	10	37	0	96	29,905
	26	E	⊙ *L. L.*	10	33	55	95,2	
	27	W	⊙ *L. L.*	10	33	30	94,7	29,900
		E	*ζ Virginis*	12	46	35	90,4	29,800
			η Ursæ Maj.	37	6	17,5	89,8	29,830
	29		⊙ *L. L.*	10	26	20	95	29,860
			ε Trion.	14	44	7,5	91	29,800
			α Libræ	28	23	0	90,5	29,816
			β Libræ	21	48	22,5	90	29,832
	30	W	⊙ *L. L.*	10	24	10	95,7	29,870
			Spicæ Virginis	23	17	57,5	91,6	29,800
			ζ Virginis	12	45	15	91,4	
			η Ursæ Maj.	37	7	10	91,3	
			η Bootis	7	13	15	91,3	
			β Centauri	48	32	55	91,3	29,805
			Arcturus	7	2	20	91,1	29,810
			ε Trion.	14	45	30	91	29,815
			α Libræ	28	21	45	91	29,818
			β Lupi	55	28	50	90,8	29,820
			γ Scorpionis	37	38	30	90,8	
			β Libræ	21	47	0	90,5	29,825
			δ Lupi	53	2	45	90,5	
			γ Lupi	53	36	37,5	90,3	29,830
			γ Libræ	27	15	0	90,1	29,832
			α Serpentis	6	4	10	90	

MERIDIAN ALTITUDES

TAKEN AT THE

MADRAS OBSERVATORY,

With the SEXTANT and ARTIFICIAL HORIZON.

NOTE.—6',96 *to be added to the Zenith Distances of Stars South, and subtracted from the Zenith Distances of Stars North, of the Zenith—being the general error of the Instrument.*

1793. Month.		Names of Stars.	Error of Instrument.	Observed Double Meridian Altitude.			Thermometer.	Barometer.
			m. s.	d.	m.	s.	d.	Inches.
February	8	*Canopus* . . .	—2 10	48	46	45	78,5	29,83
		Sirius . . .		121	1	45	79,5	29,82
		½ *Canis Maj.* . . .		96	6	45	78	
	11	κ *Columb. Noach.* . .		85	31	50	77,5	29,89
		Canopus		48	46	30	77,3	29,84
		Sirius		121	1	50	77,3	
	12	*Columb. Noach.* . .	—2 15	85	32	10	78,4	29,83
		α *Cygni*		117	6	10	83	29,74
		κ *Cephei*		82	46	15	82,5	
		κ *Gruis*		58	2	25	82	29,75
		β *Gruis*		58	2	5	82,5	29,74
		Fomalhaut . . .		92	30	50	82,3	
	21	α *Cephei*		82	46	0	77,2	29,76
	23	κ *Cygni*	—1 55	117	5	55	81,3	29,78
		κ *Cephei*		82	46	8	81,7	
		κ *Gruis*		58	2	50	81,5	29,77
		β *Gruis*		58	1	20	81,4	29,78
		Fomalhaut . . .		92	30	50	81,6	
October	1	α *Cygni*	—2 20	117	5	50	82,7	29,75
		κ *Cephei*		82	46	15	82,7	
		κ *Gruis*		58	2	40	82,4	29,76
		β *Gruis*		58	2	0	82,0	29,78
		Fomalhaut . . .		92	29	50	81,8	29,75
	3	κ *Cygni*	—2 10	117	5	20	82	
		α *Cephei*		82	46	20	81,6	
		κ *Gruis*		58	2	40	81,5	
		β *Gruis*		58	2	0	81,5	
	4	κ *Cygni*		117	5	50	81,7	29,77
		α *Cephei*		82	46	20	81,5	
		β *Cephei*		66	53	45	81,4	
	5	δ *Cygni*	—2 19	116	55	10	82	
		κ *Cygni*		117	6	0	81,7	
		κ *Cephei*		82	46	40	81,7	
		β *Cephei*		66	53	50	81,6	
		δ *Capricorni* . . .		119	49	35	81,6	
		α *Gruis*		58	2	25	81,5	
November	19	κ *Cassiopeiæ* . . .	—2 20	95	23	10	77,5	29,91
		δ *Ceti* . . .		115	41	0	77,5	29,90
		γ *Cassiopeiæ* . . .		87	0	20	77,5	29,91
		β *Phœnicis* . . .		58	18	0	77,5	
		δ *Cassiopeiæ* . . .		87	53	20	77,5	
		Achernar . . .		37	24	40	77,5	
	21	β *Cassiopeiæ* . . .		90	12	50	75	29,90
		κ *Cassiopeiæ* . . .		95	22	55	75	
		γ *Cassiopeiæ* . . .		87	0	20	75	

1793. Month.	Names of Stars.	Error of Instrument.	Observed Double Meridian Altitude.	Thermometer.	Barometer.
		m. s.	d. m. s.	d.	Inches.
November 21	*Polaris*	—2 20	29 51 0	75	29,90
	β *Phœnicis* . . .		58 18 0	75	
	δ *Cassiopeiæ* . . .		87 53 0	75	
	γ *Phœnicis* . . .		65 11 10	75	
	Achernar . . .		37 25 10	75	
22	β *Cassiopeiæ* . . .		90 10 35	74	29,91
	α *Phœnicis* . . .		67 5 20	74	29,93
	α *Cassiopeiæ* . . .		95 23 15	74	29,91
	β *Ceti* . . .		115 42 0	74	
	γ *Cassiopeiæ* . . .		87 0 30	74	
	Polaris		29 51 40	74	
	β *Phœnicis* . . .		58 17 40	74	
	δ *Cassiopeiæ* . . .		87 53 0	74	
	γ *Phœnicis* . . .		65 11 10	74	
	Achernar . . .		37 25 20	74	
23	β *Phœnicis* . . .		58 18 0	74	29,89
	γ *Phœnicis* . . .		65 11 40	76	
	Achernar . . .		37 24 45	76	
26	β *Cassiopeiæ* . . .		90 10 35	75,5	
	α *Phœnicis* . . .		67 5 50	75,5	
	α *Cassiopeiæ* . . .		95 23 50	75,5	
	β *Ceti*		115 41 40	75,5	
	γ *Cassiopeiæ* . . .		87 0 30	75,5	
	Polaris		29 52 40	75,5	29,90
	β *Phœnicis* . . .		58 17 40	75,5	
	γ *Phœnicis* . . .		65 11 30	75,5	
	Achernar . . .		37 24 50	75,5	29,89

End of the Third Volume.

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